

COLUMBIA UNIVERSITY BULLETIN

BARNARD
COLLEGE



ANNOUNCEMENT FOR 1958-1959
Fifty-eighth Series No. 15, April 12, 1958

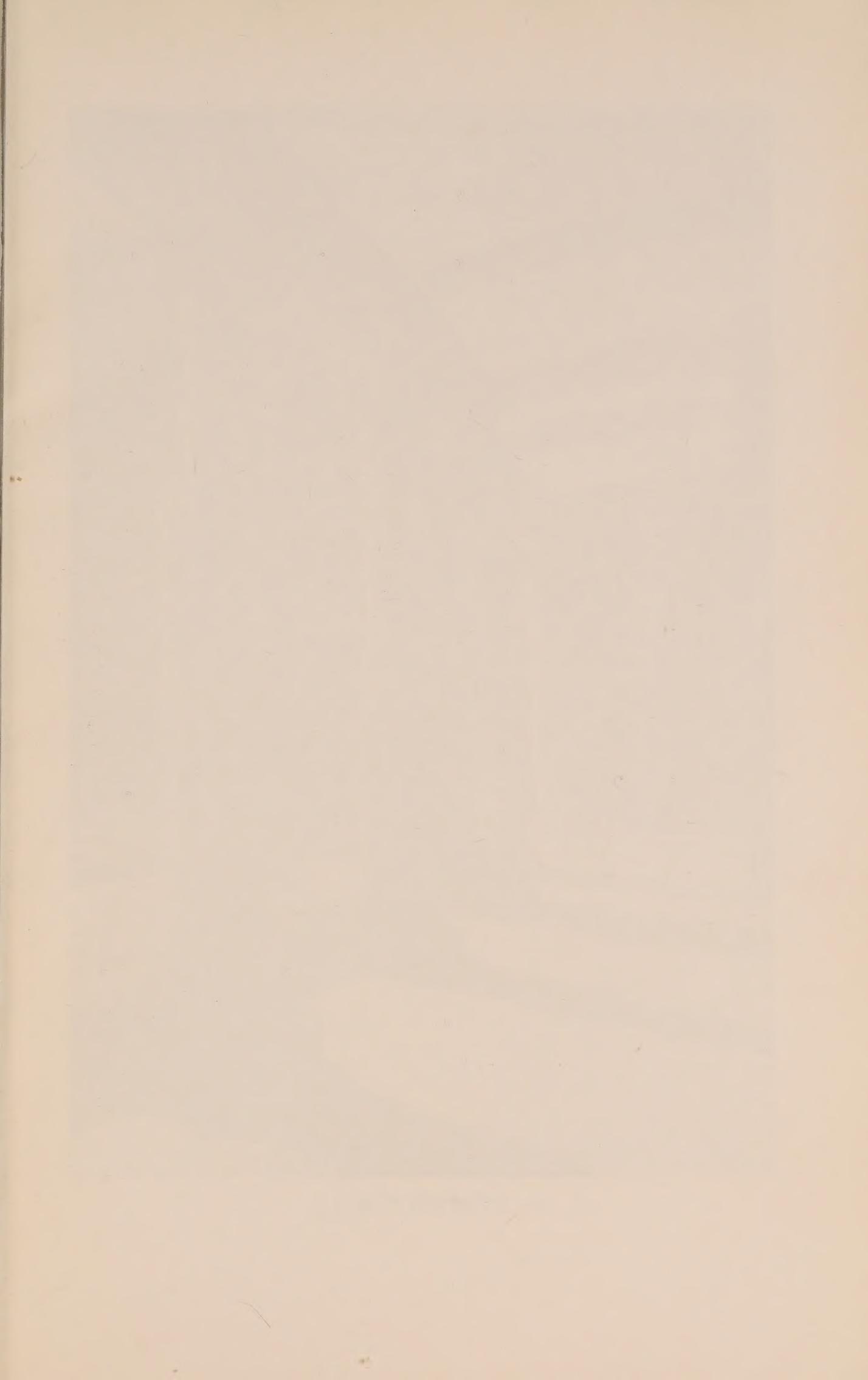
Columbia University Bulletin of Information

FIFTY-EIGHTH SERIES, No. 15

APRIL 12, 1958

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty-six consecutive issues. Second-class mail privileges authorized at New York, N. Y., under the Act of August 24, 1912.

26,000—1958





MILBANK HALL

BARNARD COLLEGE
THE UNDERGRADUATE COLLEGE
OF LIBERAL ARTS
FOR WOMEN
OF
Columbia University

1958 - 1959

MORNINGSIDE HEIGHTS
NEW YORK 27, N. Y.

COMMUNICATION WITH THE COLLEGE

Students and prospective students should read carefully the pertinent sections of this Announcement before writing or requesting applications as indicated below.

The post office address is Barnard College, Columbia University, New York 27, N. Y. The telephone number is UNiversity 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College: the General Secretary
Admission to the freshman class or with advanced standing, information about scholarships for entering students and requests for catalogues: the Director of Admissions

Scholarships and loan funds for students in college: the Dean of Studies

Academic work of students: the Class Advisers

Payment of college bills: the Bursar

Requests for transcripts and notices of withdrawal: the Registrar

Health: the College Physician

Opportunities for self-help, recommendations for employment: the Placement Office

Gifts or bequests: the General Secretary

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations

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BARNARD is the undergraduate liberal arts college for women of Columbia University. Since its founding in 1889, it has aimed to offer young women an education of high standard. Through giving wide opportunities for serious study, it has opened to its students the delights of learning and the training prerequisite for the professions.

Because of Barnard's relationship to Columbia, our curriculum is extensive in its scope as well as demanding in its approach to study. Whatever its students desire to learn may be found in the opportunities offered by our faculty and by a great University; whatever fruits of learning they wish to taste—whether in the arts or in the business of the community—they may discover in New York City, of which Barnard is proud to be a part. In addition, they will find a well-rounded, mature program of college activities, part of which is shared with Columbia College.

Underlying our curriculum and our daily round of activity is the conviction that a college education is a high privilege; that those who have great opportunity have the responsibility to use it to the full. For learning alone is not enough; it must be used with wisdom to make living creative and effective. We welcome students who share this conviction; who wish to learn so that they may take their full part in our complex and exciting world.

Millicent C. McIntosh

I. Organization

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RICHARD P. YOUTZ

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GRAYSON KIRK, 1952, President of the University

A.B., Miami; A.M., Clark; Ph.D., Wisconsin; LL.D.

MILLICENT CAREY MCINTOSH, 1947, President of Barnard College and
Dean in the University

A.B., Bryn Mawr; Ph.D., Johns Hopkins; LL.D.; Litt.D.; L.H.D.

THOMAS P. PEARDON, 1923, Dean of the Faculty and Professor of Gov-
ernment

B.A., University of British Columbia; A.M., Clark; Ph.D., Columbia

HELEN PHELPS BAILEY, 1933, Dean of Studies and Associate Professor of
French

A.B., Barnard; A. M., Ph.D., Columbia

RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., A.M., Ph.D., Columbia

BERNARD BARBER, 1952, Associate Professor of Sociology

A.B., A.M., Ph.D., Harvard

HENRY A. BOORSE, 1937, Professor of Physics

B.S., United States Naval Academy; A.M., Ph.D., Columbia

MARISTELLA DE PANIZZA BOVÉ, 1951, Associate Professor of Italian

Dott. in Lett. e Filos, Rome

JOSEPH GERARD BRENNAN, 1947, Associate Professor of Philosophy

A.B., Boston College; A.M., Harvard; Ph.D., Columbia

LE ROY BREUNIG, 1953, Associate Professor of French

A.B., DePauw; Ph.D., Cornell

SIDNEY A. BURRELL, 1947, Associate Professor of History

A.B., Chicago; Ph.D., Columbia

MARIANNA BYRAM, 1926, Assistant Professor of Fine Arts

A.B., Barnard; A.M., Radcliffe

BARBARA S. CANNELL, 1957, Assistant Professor of Psychology

A.B., Nebraska; A.M., Columbia

The dates refer to the beginning of service in the College and not necessarily
to the assumption of the current title.

THE FACULTY

⁴ROSALIE COLIE, 1949, Assistant Professor of English
A.B., Vassar; A.M., Ph.D., Columbia

¹WILLIAM A. CORPE, 1956, Assistant Professor of Botany
A.B., A.M., Wisconsin; Ph.D., Pennsylvania State

WILLIAM WALLACE CUMMING, 1955, Assistant Professor of Psychology
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ELIZABETH CZONICZER, 1952, Assistant Professor of Italian
Absolut., Budapest; A.M., Chicago; Ph.D., Columbia

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Bach., Instituto-Escuela de Madrid; A.M., Ph.D., Columbia

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B.S., A.M., Nebraska; Ph.D., Radcliffe

JOHN DAY, 1931, Professor of Greek and Latin
A.B., Ohio State; Ph.D., Johns Hopkins

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A.B., Barnard; A.M., Columbia; Ph.D., Cambridge

CLARA ELIOT, 1920, Associate Professor of Economics
A.B., Reed; Ph.D., Columbia

GEORGE P. ELLIOTT, 1957, Assistant Professor of English
A.B., A.M., California

JOANNE ELLIOTT, 1955, Associate Professor of Mathematics
A.B., Pembroke; A.M., Ph.D., Cornell

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¹ Joint Appointment with Columbia.

² Absent on leave, Winter Session.

³ Absent on leave, Spring Session.

⁴ Absent on leave, 1958-59.

BARNARD COLLEGE

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D. en D., Havana

RENÉE CLAIRE FOX, 1955, Assistant Professor of Sociology
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²MARION HAMILTON GILLIM, 1952, Associate Professor of Economics
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AUBREY GORBMAN, 1946, Professor of Zoology
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A.B., University of the South; A.M., Ph.D., Columbia

VIRGINIA D. HARRINGTON, 1942, Associate Professor of History
A.B., Barnard; A.M., Ph.D., Columbia

JULIUS S. HELD, 1937, Professor of Fine Arts
Ph.D., Freiburg

MARGARET HOLLAND, 1926, Associate Professor of Physical Education
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³LUCYLE HOOK, 1949, Associate Professor of English
A.B., B.S., Texas State College for Women; A.M., Columbia;
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TRACY S. KENDLER, 1954, Assistant Professor of Psychology
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¹ Joint Appointment with Columbia.

² Absent on leave, Spring Session.

³ Absent on leave, 1958-59.

THE FACULTY

ROBERT LEKACHMAN, 1947, Associate Professor of Economics
A.B., Ph.D., Columbia

EDGAR R. LORCH, 1937, Professor of Mathematics
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Royal Academy of Music, Munich; University of Zurich

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¹ Joint Appointment with Columbia.

² Absent on leave, Winter Session.

³ Absent on leave, 1958-59.

BARNARD COLLEGE

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DAVID A. ROBERTSON, JR., 1940, Professor of English
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¹ Absent on leave, 1958-59.

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B.S., Southwest Missouri State Teachers; A.M., Ed. D., Columbia

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BARNARD COLLEGE

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ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of
Economics, Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German
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THE FACULTY

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A.B., Barnard

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A.B., Barnard; A.M., Columbia

MARLYN MANGUS, 1957, Assistant in Geology
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B.S., A.M., Columbia

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B.S., Brooklyn; M.S., Illinois

ALICE LEVINE MITCHELL, 1951, Lecturer in Music
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JOANN RYAN MORSE, 1957, Instructor in English
A.B., Vassar; A.M., Yale

INEZ G. NELBACH, 1948, Associate in English
A.B., Barnard; A.M., Columbia

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ROBERT PACK, 1957, Instructor in English
A.B., Dartmouth; A.M., Columbia

BEATRICE G. REUBENS, 1955, Lecturer in Economics
A.B., Brooklyn; A.M., Columbia

JOSEPH K. ROBERTS, JR., 1956, Instructor in Government
A.B., Princeton

RUTH A. ROOSA, 1949, Lecturer in History
A.B., Pembroke; A.M., Radcliffe

PHYLLIS RUBIN, 1958, Lecturer in Mathematics
A.B., Barnard; A.M., Ohio State

GERTRUD M. SAKRAWA, 1952, Associate in German
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BARNARD COLLEGE

JEANETTE SCHLOTTMANN, 1951, Associate in Physical Education
B.S., A.M., Texas State College for Women

¹WILLY SCHUMANN, 1955, Instructor in German
A.B., A.M., Southern Methodist

BERNICE SEGAL, 1958, Instructor in Chemistry
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A.B., Dartmouth; B.D., Union Theological Seminary

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B.A., McGill; A.M., Radcliffe, Columbia; Ph.D., Columbia

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OFFICERS OF COLUMBIA UNIVERSITY GIVING COURSES LISTED IN THIS ANNOUNCEMENT

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JOSEPH L. BLAU, Ph.D., Associate Professor of Philosophy

OTTO J. BRENDL, Ph.D., Professor of Fine Arts

²JAMES L. CLIFFORD, Ph.D., Professor of English

¹ Absent on leave, Winter Session.

² Absent on leave, 1958-59.

THE FACULTY

- VERA K. FISCHER, Ph.D., Instructor in Physics
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JAMES W. HALPORN, Ph.D., Instructor in Greek and Latin
LUCY J. HAYNER, Ph.D., Associate Professor of Physics
GEORGE W. HIBBITT, Ph.D., Associate Professor of Speech
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Anton Professor of the Latin Language and Literature
JOHN A. HUTCHISON, B.D., Ph.D., Professor of Religion
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ROBERT VON NARDROFF, Ph.D., Associate Professor of Physics
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EDITH PORADA, Ph.D., Assistant Professor of Fine Arts
HOWARD N. PORTER, Ph.D., Associate Professor of Greek and Latin
HOWARD SHANET, A.M., Assistant Professor of Music
F. MARK SIEBERT, A.M., Instructor in Music
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JANE D. ZIMMERMAN, Ph.D., Professor of Speech

BARNARD COLLEGE

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Dean of the Faculty and Professor of Government

HELEN PHELPS BAILEY, Ph.D.

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JEAN T. PALMER, A.B.

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FORREST L. ABBOTT, Ed.D.

Treasurer and Controller

OFFICE OF THE PRESIDENT

MADELEINE GILMORE, A.M. Executive Secretary

OFFICE OF THE DEANS

CLARA ELIOT, Ph.D.

Adviser to the Class of 1959 and Associate Professor of Economics

MARIANNA BYRAM, A.M.

Adviser to the Class of 1960 and Assistant Professor of Fine Arts

INEZ NELBACH, A.M.

Adviser to the Class of 1961 and Associate in English

ANNETTE KAR BAXTER, A.M.

Adviser to the Class of 1962 and Lecturer in History

DOROTHY E. FOX, A.B.

Adviser to Foreign Students and Assistant to the Dean of the Faculty

ADMISSIONS

HELEN M. MCCANN, A. B.

Director

MARGARET DYKES DAYTON, A.M.

Associate Director

ASSOCIATE ALUMNAE

MARY A. BLISS, A. B.

Executive Secretary

BURSAR

EMILY G. LAMBERT, A.B.,

Bursar

FRANCES A. BARRY, M.S.

Assistant Bursar

CHAPLAIN OF THE UNIVERSITY

JOHN M. KRUMM, Ph.D., B.D.

ADMINISTRATION

COLLEGE ACTIVITIES

KATHERINE R. GOODWIN, B.S.

Director

DEVELOPMENT OFFICE

JEAN T. PALMER, A.B.

Director

DOROTHY COYNE WEINBERGER, A.B.

Assistant to the Director

FOOD SERVICES

ELEANOR R. SMITH, B.S.

Director

HEALTH

MARJORY J. NELSON, M.D.

College Physician

A. LOUISE BRUSH, M.D.

Consulting Psychiatrist

BARBARA CANNELL, A.M.

Counseling Psychologist

ELIZABETH MATHEWSON, R.N.

Nurse

LELA ANDERSON, R.N.

Nurse

CARL R. WISE, M.D.

University Medical Officer

LIBRARY

ESTHER GREENE, A.B., B.S.

Librarian

THUSNELDA BRETTMAN

Assistant Librarian

SARAH KATHARINE THOMSON, A.B., M.S.

Reference Librarian

MAINTENANCE AND OPERATIONS

JOHN KISSLING

Manager

PLACEMENT

ETHEL S. PALEY, A.B.

Director

LEONORE POCKMAN, A.B.

Assistant Director

PUBLIC RELATIONS

PHYLLIS D. MICHELFELDER, A.B.

Director

PURCHASING

MARY BANE

Manager

REGISTRAR

MARGARET GIDDINGS, A.B.

Registrar and Secretary to the Faculty

HELEN LAW, A.B.

Assistant Registrar

RESIDENCE

HARRIET BENSEN

Director

Assistant Director

II. An Introduction to the College

BARNARD'S BEGINNING

Many colleges begin with something tangible: a gift of buildings, a tract of land, or an endowment. Barnard College began with nothing except the idea of equal education for women.

The man who went far in making this idea a reality was President Frederick A. P. Barnard of Columbia University. As early as 1879, he expressed his conviction that "in the interests of society the mental culture of women should be not inferior in character to that of men," and he opened a vigorous campaign for the admission of women to Columbia College. His idea "failed to attract the serious attention of the trustees, who doubted whether the female brain could stand the strain of a rigorous college course."

After years of work on the part of New York women who became a "persistent set of agitators," a resolution was finally passed by the Columbia Board of Trustees on April 1, 1889, establishing a separate college for women. In October 1889 the first class of Barnard College met in a rented house at 343 Madison Avenue, with seven instructors selected from the Columbia faculty, fourteen students enrolled in the School of Arts and twelve special students in science. Nine years later the College moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of the University.

Since 1900 additional land and buildings have been acquired by Barnard until now the College occupies the entire area between 116th and 120th Streets, bounded by Broadway and Claremont Avenue, one block east of Riverside Park and the Hudson River. Currently the College owns equipment, buildings and grounds with a book value of \$5,163,000 and holds endowment funds totalling \$9,640,000.

BARNARD TODAY

Barnard today retains its identity as an independent college for women, with a faculty, president, and trustees of its own, and responsibility for its financial endowment. At the same time it shares the instruction, the libraries, and the climate of research of a great university. The degree of Bachelor of Arts is conferred upon the graduates of Barnard by Columbia University.

The curriculum offers to undergraduates an opportunity to cultivate

AN INTRODUCTION TO THE COLLEGE

the liberal arts in an atmosphere which is both scholarly and cosmopolitan. Specific requirements for the degree are designed to provide knowledge of the different areas of human thought and their interrelationship. Two years' work in the humanities bring the student in contact with literature, and with fields such as philosophy, religion, music, or the fine arts. A year's work in history is required, as well as a course dealing with some phase of contemporary society. The student must become acquainted with both the physical and biological sciences, and before graduation must demonstrate a reading ability in at least one foreign language. These requirements serve not only as a basis for intensive work in some particular field of learning, but also as an introduction to the common enterprise of living.

Every student chooses a major field of study, which she follows in advanced courses, seminars, and independent study. Students may choose among twenty-two departments, or may elect an interdepartmental major such as American Civilization or Foreign Areas Studies. In addition, there are special programs in Education and Drama, which are undertaken in conjunction with a major in another subject.

Barnard has a faculty and teaching staff of some 150 men and women, including part-time instructors who come to the campus from the world of literature, the theatre, and the arts. In addition, members of the University faculty also give instruction at the College.

Some undergraduate classes are held with Columbia College, and the music, religion, physics, mathematics and classics departments are joint departments with Columbia. Graduate courses are also open to qualified seniors.

Four members of the teaching staff act as Class Advisers; the Freshman Adviser is assisted by thirty academic counselors drawn from the faculty at large. At the end of the sophomore year a major adviser is selected, whose special concern is the student's progress in her chosen field. Classes vary in size, ranging from fifteen to twenty students in the language and laboratory sections and seminar groups, to large lecture courses in many of which the individual conference hour plays an essential part. Barnard is committed to a teaching plan whereby as often as possible the student has direct contact with the instructor.

THE CAMPUS

The campus occupies four acres of land adjacent to Columbia, between 116th and 120th Streets on Morningside Heights. The residence

BARNARD COLLEGE

halls, Brooks and Hewitt, face two sides of an open quadrangle. Milbank Hall, at the north of the campus, contains classrooms and administrative offices, as well as the science laboratories and their departmental libraries, a greenhouse for the use of botany students, the Minor Latham Drama Workshop, and penthouse studios and practice rooms for the music department. Barnard Hall houses the gymnasium and swimming pool, the dance studio, English seminar and classrooms, a spacious social center known as the James Room, and the Annex which has a lounge, snack bar, and quarters for student organizations.

The main library occupies the third floor of Barnard Hall. It has a collection of 78,000 volumes on open shelves, together with a record collection and record players, and other illustrative and historical material used in the college courses. All the libraries of the University, which contain over 2,000,000 volumes, are open to Barnard students. In the near future, ground will be broken for a new building which will greatly expand the facilities of the present library and make available additional offices and classrooms. The building will be erected north of Barnard Hall on Claremont Avenue, south of the tennis courts and the circular garden of flowers, sun-dial and trees, long ago christened "The Jungle."

STUDENT LIFE

The student body of 1300 young women is chosen from all types of schools, independent and public, representing nearly every state in the Union and thirty foreign countries. This diversity of background finds expression in the life of the college community.

Extra-curricular activities are sponsored by the Undergraduate Association and reflect the interests of the entire group. A committee of students from Barnard and Columbia College jointly plan the social program of the two colleges. Dramatic organizations, the Columbia radio station, the University Chorus and Orchestra, and the Gilbert and Sullivan Society are among the activities which provide an opportunity for members of the two undergraduate colleges to work together.

The Undergraduate Association takes wide responsibilities in the college community. The Association is represented on important college committees such as the Council on Development and the Assemblies Committee. An undergraduate Curriculum Committee consults with the Faculty Committee on Instruction, and from time to time makes

AN INTRODUCTION TO THE COLLEGE

recommendations. The Honor Board administers an honor code under which all students agree to maintain a high standard of honor in examinations and in other phases of college life.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students, and the Thursday Noon Meeting at Barnard provides a weekly forum in which students can discuss contemporary religious and philosophical thought with faculty and guest speakers. The devotional life of College and University is centered in St. Paul's Chapel, where week-day and Sunday services are held, at which attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith its own traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basket-ball, water ballet, fencing, and modern dance, and inter-collegiate Sports Days throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp was purchased by the alumnae, twenty acres of wooded land in Westchester County, providing an ideal site for country week-ends and recreation.

All matters which pertain to health are in the charge of the College Physician, who is assisted by a psychiatrist and two nurses. Medical examinations at regular intervals are obligatory, and resident students and non-resident students not living with family or relatives are required to subscribe to the University's Medical Plan (see page 140).

A UNIVERSITY COLLEGE

Barnard shares the long tradition of Columbia University, which was founded as King's College by royal charter in 1754. It shares also the unlimited resources of New York City. Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan, and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." Barnard is a university college in an international city, and today the curriculum affirms and encourages the precise and graphic use of its vast educational laboratory.

III. Admission

The Committee on Admissions selects for Barnard those candidates who show evidence of intellectual ability, sound character, and good health. Along with the past record of academic achievement, promise of good citizenship is important. In addition, the College believes it desirable that the college experience be shared by students representing a wide variety of schools, many parts of the United States, and many foreign countries.

Candidates wishing to talk over their plans may arrange with the Office of Admissions for an interview at the College in the fall of their senior year at secondary school or during their junior year, except during the period from April 1 to June 1. Whenever possible, the Office of Admissions will be glad to arrange interviews with alumnae for those students who are unable to visit the College.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before February 15 of the year of entrance. It is more desirable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions. A non-refundable fee of \$15 must accompany each application.

Students are admitted to the freshman class in September of each academic year. They should be at least fifteen years of age. They must present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview with a member of the staff of the Office of Admissions.
- 2) Evidence of sound health, which should be submitted, as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Specifically, a candidate for admission should be a graduate of an approved secondary school or should have equivalent education repre-

senting a four-year course of study. Academic requirements for admission are based on the requirements for the A.B., or liberal arts degree. The secondary school course of study should include, therefore, four years of work in English, three years in one foreign language and two in another, and college preparatory mathematics studied for two years. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For pre-medical students advanced work in science, mathematics and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board scholastic aptitude test in January or March of her senior year in school and three scholastic achievement tests in March of her senior year. The latter must be taken in (1) English composition, (2) a foreign language, and (3) social studies, science or mathematics. January graduates may take the College Board tests in December of their senior year. The required aptitude and achievement tests should be taken only once in the senior year. If the scholastic aptitude test is taken for guidance purposes in the junior year, the scores should be reported to the College.

EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, along with the other members of the Seven College Conference, has agreed, beginning with the class entering in September, 1959, to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this early decision plan must be certified by their schools as having filed only one application.

Single-choice candidates for Barnard admission in September, 1959, should send their application to the Office of Admissions, Barnard College, New York 27, before October 15, 1958. Applications must be accompanied by the \$15 application fee.

Early in December Barnard will send to all single-choice applicants letters of admission, rejection, or, in doubtful cases, of postponement of decision until the regular date in May. Each applicant will be considered on the basis of (1) the recommendation of her school

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principal or guidance counselor; (2) her three-year record at school; and (3) the results of the required College Board scholastic aptitude test and the scholastic achievement tests taken in the junior year.

The admitted candidate will be expected to complete her senior year at school satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She will agree to pay to Barnard in February, 1959, a deposit of \$100 if she is to be a non-resident student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, along with the results of senior College Board scholastic aptitude and achievement tests as additional evidence.

Those candidates on whose applications favorable action has not been taken may file applications at other colleges on receiving the December notice from Barnard.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1958-59.

Saturday, December 6, 1958

Saturday, March 14, 1959

Saturday, January 10, 1959¹

Saturday, May 16, 1959

Saturday, February 14, 1959¹

Wednesday, August 12, 1959

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Information containing descriptions of the scholastic aptitude and achievement tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, P. O. Box 27896, Los Angeles 27, California. In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, Alaska, Hawaii, the Canal Zone, Canada, Mexico, and the West Indies is two

¹ The aptitude test only is administered on these dates.

ADMISSION

months before the date of the examination; for all other candidates the closing date is four weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Los Angeles later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic aptitude test alone.....	\$ 7.00
One, two, or three achievement tests.....	9.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

ADMISSION TO ADVANCED STANDING

Candidates are admitted to advanced standing in September and February. They should have satisfactorily completed at least one year of work at an acceptable college or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from an institution of equal standing, will receive at Barnard a year's credit for a year's work at the institution from which she enters. (See also page 27.)

The student should submit with her formal application the following credentials: her secondary school record and a recommendation from her principal; a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked; the results of the College Entrance Examination Board tests she has taken. A candidate for admission will be asked to take the College Entrance Examination Board scholastic aptitude test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before July 1 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the

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Committee on Admissions by September 15, 1958; otherwise, the student must postpone registration until Monday, September 29, 1958, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates of other colleges may apply for permission to complete their requirements at Barnard. Applicants must present satisfactory college records and letters of approval from their Deans. All students are expected to comply with the Barnard regulations concerning attendance and course examinations.

ADMISSION AS SPECIAL STUDENTS

Mature students who wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

RE-ADMISSION

A student who has withdrawn from the College is not automatically re-admitted. She should make application for re-admission to the Director of Admissions. A non-refundable fee of \$15 must accompany the application. The application fee for students planning to re-enter Barnard before 1959 is \$10.

IV. Degree Requirements

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points (a point is considered to be the equivalent of fifty minutes of class work a week and two hours of preparation) and include the following:

- I. English. The introductory course, English A1-A2, Reading and Writing (6 points).
- II. Hygiene, unless exemption is granted on the basis of a test, (2 points).
- III. Foreign languages and literature: (1) Proof of the ability to read a foreign language with ease. This requirement can be fulfilled in two ways, either by an examination (given in January, May and September), or by satisfactory completion of an approved advanced course in literature (marked § in the course descriptions). Six points must be taken and a minimum passing grade of C— obtained. The requirement should be fulfilled before the beginning of the senior year. If not, the senior program must include provision for fulfilling it and be approved by the Committee on Programs and Standing. (2) One year's study of a second foreign language, unless the student has had the equivalent (two years) in secondary school (6 to 8 points).
- IV. Humanities: (1) Six points of work in literature, normally a full-year course, studied in the language in which it was originally written. (2) Six points of work in fine arts, literature (which may be in translation), music, philosophy or religion, or Music 1-2 or Fine Arts 1-2. An advanced literature course taken in place of the foreign language examination may also be counted towards the humanities requirement (10 or 12 points).
- V. Social Sciences: (1) History: one full-year course, normally European history (1-2), or American history (9-10, 33-34, 45-46, or 55-56). (2) Contemporary Society: one full-year's work in another social science to be chosen from the following: Anthropology 1-2; 18; Economics 1-2 (both terms), 19 and R32; Geography 3, 4; 12; 15E; 15W; Government 1, 2 (both terms), 7, 8 (both terms), and 9, 10; Psychology 37; Religion 25; So-

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ciology 1-2 (both terms). Except where both terms are indicated, any combination of these courses may be made (6 points).

- VI. Natural Sciences: Two full-year courses, one of which must include laboratory work (8-10 points). The sciences are divided into two areas: (1) biological—anthropology (human evolution), botany, experimental psychology, zoology, and (2) physical—chemistry, physical geography, geology, physics. Both areas must be represented, unless mathematics (6 points) is elected to fulfill the non-laboratory science requirement.
- VII. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work and, if noted in the departmental statements, a major examination at the end of the senior year. A major may be chosen in any one field, or in such combinations as are indicated. Transfer students are required to take a minimum of 18 points in their major at Barnard.
- VIII. Electives: To be chosen with reference to the interests and objectives of the student (40 to 44 points).
- IX. Physical Education (required for three years).

These requirements can be summarized numerically as follows:

Group requirements	48 to 52 points
Major requirement	28 points
Electives	44 to 40 points
Physical education	three years

Students' programs are planned in cooperation with the Class and Major Advisers and are filed in accordance with the general regulations of the College (see page 157).

MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies in accordance with the subject matter and the department's conception of the best method of mastering it. In some, a major examination must be taken; in others, a senior thesis must be written or a senior seminar successfully completed. Specific departmental requirements are listed in the appropriate statements, beginning on page 28. At the end of the sophomore year each student chooses her major adviser, with whom she plans all subsequent work in her area of concentration.

DEGREE REQUIREMENTS

CREDIT

All requirements must be completed within six years from the student's matriculation as a freshman at Barnard or elsewhere; within four-and-a-half years from matriculation as a sophomore; three years from matriculation as a junior; and a year and a half from matriculation as a senior.

Fifteen of the points elected during the senior year must be taken at Barnard.

In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. (See Grading System, page 159).

REQUIREMENTS FOR TRANSFER STUDENTS

Before registration an estimate of credit is sent to students transferring from other colleges as a guide to the required work to be completed at Barnard. The student in conference with the Class and Major Advisers determines her program of work, taking into account her previous academic record and her future plans. The following restrictions should be noted:

All transfer students are required to take the English proficiency test during the registration period. Any student who has had an introductory course comparable to English A1-A2 is allowed to fulfill the English requirement by offering this course from another college, provided she passes the proficiency test. Others are assigned either to English 1, 2 or to other English courses suited to their needs.

All sophomore transfers are required to take the hygiene exemption test during the registration period. Those who do not pass the test must take Hygiene 1 (see page 88) during the winter semester of the sophomore year. After the opening of college all junior transfers will be interviewed by Dr. Nelson to determine the question of their exemption from the hygiene course.

A maximum of 32 points towards the Barnard degree is allowed for one year's work elsewhere. Sixty of the points to be counted towards the degree must be taken at Barnard, as well as a minimum of 18 points in the major field. Only if the student's overall average in her previous college is 2.00 (C), can work of D grade done elsewhere count towards the Barnard degree.

Qualified transfer students are eligible to apply for admission to the professional schools of the University on completion of required preliminary work at Barnard.

V. Courses of Instruction

Descriptions of the courses offered by Barnard will be found in the following pages. Fuller information can be obtained from the executive officers of the departments at registration periods and during the academic year. The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Winter session courses are marked by odd numbers, spring session courses by even numbers, year courses by consecutive odd and even numbers. An odd number preceded by the prefix R indicates a course repeated in the spring session that is ordinarily given in the winter session. An even number preceded by R indicates a course repeated in the winter session that is ordinarily given in the spring session.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the Committee on Programs and Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if all prerequisites have been met, and the written permission of the instructor obtained.

Courses marked with a star (★) are given at Columbia University and are open to Barnard students. They may not be taken on an audit basis.

Courses marked with a star (★) and the prefix G.S. are given in the School of General Studies of the University.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. [0]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, except Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete list of courses by examination groups is given on page 172.

Foreign languages not taught at Barnard which are available at Columbia may be taken by qualified students with the approval of the Class Advisers and the University authorities.

INTERDEPARTMENTAL MAJORS

I. AREAS STUDIES

Officer in charge for 1958-59, PROFESSOR STABENAU

A. Foreign Areas Studies

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable a student to concentrate on the civilization of some one area or country of the world.

A major in Foreign Areas Studies is available to a limited number of qualified students whose applications are approved by the committee in charge. A freshman anticipating such a major should consult her adviser and Professor Stabenau as soon as possible.

A student who wishes to major in Foreign Areas Studies must satisfy the foreign language requirement (page 25) before becoming a major. In her freshman and sophomore years she should also take at least 12 points in the social sciences.

After being accepted as a major, the student will be expected to specialize in the study of one country or region. For this purpose she will continue her work in language and will take such courses in the literature, fine arts, geography, history and institutions of her chosen area as may be determined in consultation with her adviser. Whenever possible, these courses will include a seminar in the senior year.

In addition to the language courses given at Barnard, courses in many other languages are available to Barnard students at Columbia University.

Areas of concentration:

1. England. See special program in British Civilization, page 31.
2. Western Europe, with special reference to some one country, Professors Bové, Breunig, Carrié, Stabenau and others.
3. Russia, Mrs. Roosa.
4. Far East, Professor Mahler.
5. Latin America, Professor Florit.

Major examination: Students majoring in Foreign Areas Studies are required to pass a major examination, the exact nature of which varies with the individual field. Specially qualified students may be invited to write a senior thesis instead of taking a major examination.

B. International Relations

A student who is particularly interested in the field of international relations should major in one of the social sciences, such as economics, government or history. With her major in her chosen subject, she should combine courses in other subjects which deal with international themes. A mimeographed list of such courses, from which selection can be made in consultation with the adviser, is available.

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In addition to the courses given at Barnard College, other courses in international relations and related fields are available at Columbia University.

II. AMERICAN CIVILIZATION

This program is supervised by the Committee on American Civilization:

BASIL RAUCH, Professor of History, Chairman

JOHN A. KOUWENHOVEN, Professor of English

OTTO LUENING, Professor of Music

BERNARD BARBER, Associate Professor of Sociology

MARIANNA BYRAM, Assistant Professor of Fine Arts

The purpose of the program is to develop understanding of American Civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Civilization. Students who wish to major in American Civilization should obtain from the Chairman of the Committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualification for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 9-10 and 1-2, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Civilization 1, 2, and in the senior year the two advanced courses and American Civilization 3, 4.

Required Courses:

History 9-10, History of the American Nation from Colonies to World Power

History 1-2, Modern European History

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the Chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A senior research essay to be prepared in the senior seminar is required in lieu of the major examination.

1, 2. Junior Readings. 6 points

[0]

Students will read selected classics in American Civilization and also important books dealing with subjects which they do not study in basic courses. Brief writ-

INTERDEPARTMENTAL MAJORS

ten reports for discussion in the meetings. The reading list for this course should be obtained by majors at the end of the sophomore year in preparation for entering the course in the fall. At the end of the spring session a summer reading assignment will be made for completion before entering the senior seminar.

Required of all junior majors in American Civilization. Open to others by special permission of the Chairman of the Committee. **MRS. BAXTER.** Bi-weekly meetings of two hours. Hours to be arranged.

3, 4. Senior Seminar. 8 points.

[0]

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar.

Required of all senior majors in American Civilization. Open to others by special permission of the Chairman of the Committee. **PROFESSOR RAUCH.** W 4-6 and frequent conferences. 209 Milbank.

III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

SIDNEY A. BURRELL, Assistant Professor of History, Chairman

DAVID A. ROBERTSON, JR., Professor of English

CHILTON WILLIAMSON, Associate Professor of History

Open to students who wish to devote particular attention to all aspects of British Civilization in the home islands and in the Empire-Commonwealth as well as to the interrelations of both with European civilization as a whole.

A major in British Civilization. A student who wishes to major in British Civilization must obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 1-2. The applicant should then plan, in consultation with the Chairman, a program of study which will contain the following three required courses: History 11, 12; History 35, 36; and a senior seminar.

In addition each student should select in accordance with her interests a minimum of three courses in the social sciences and the humanities to be selected in consultation with the Chairman, as follows:

One basic course in the social sciences.

One basic course in the humanities.

One advanced course in either the social sciences or the humanities.

Senior requirement: A senior may elect to take a three-hour comprehensive examination to be given at the end of April or she may write a senior thesis, the length and standards of which will be set by the Committee.

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81–82. Senior Seminar. 8 points.

[0]

Seminar in British Civilization. Readings and discussion of selected problems in the development of British Civilization from the Norman Conquest to the twentieth century. Open to majors in British Civilization and history majors interested in historiography on permission of the Chairman of the Committee on British Civilization. Prerequisite: History 11, 12. PROFESSOR PEARDON. W 4–6. 13 Milbank.

IV. INTERDEPARTMENTAL COURSES

Oriental Civilization 35–36. 8 points.

[5]

The aim of this course is to provide an understanding of the more important factors in the contemporary life of peoples of India, China, Japan and Korea, together with an appraisal of their role in the world today. The winter session deals with the evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. The spring session will take up developments in the nineteenth and twentieth centuries as these societies have confronted the modern West while still grappling with age-old problems. The fourth hour will be devoted to consultation and audio-visual illustrations. Prerequisite: History 1–2 and six points in some other social science. PROFESSORS DE BARY, MESKILL and WEILER. M W F 2 and a fourth hour to be arranged. 315 Milbank.

Oriental Humanities 39–40. 8 points.

[16]

A selection from the works of Near Eastern, Indian, Chinese and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several oriental traditions. The winter session will deal with works from the Near East and India; the spring session with readings from China and Japan. Open to juniors and seniors who have completed six points of literature. PROFESSORS DE BARY, MESKILL and WEILER. Th 3–5. 315 Milbank.

V. OTHER INTERDEPARTMENTAL OFFERINGS

An interdepartmental program in the foundations of education and child study.
See page 47 for details.

A major in natural resources offered jointly by the Departments of Botany and Geology-Geography. Required courses are Botany 1–2 and 7, Geography 12, Geology 1, 2 and 28, and a Senior Seminar in Natural Resources. All majors must take a course in field ecology and conservation. So far as possible these courses should be arranged in a three or four year sequence. Other Bar-

INTERDEPARTMENTAL MAJORS

nard requirements must be fulfilled by courses which correlate with the major field. Further information concerning the objectives and the program of study of this major may be had from the departments concerned.

Joint majors. In addition to the offerings described above, it is possible for students to take a joint major in two departments. This is especially true in the social sciences where students often make combinations such as: economics and government; economics and sociology; government and history; government and sociology.

For the requirements in these and other similar majors, consult the departments concerned.

ANTHROPOLOGY

ASSISTANT PROFESSOR: CATHARINE McCLELLAN (Executive Officer)

INSTRUCTOR: ANN CHOWNING

ASSISTANT: ——————

As preparation for the major in anthropology, the department recommends as much background work as possible in the subjects required for the liberal arts degree. A student should try to complete before the junior year the requirements in history and science, particularly the introductory courses in geology, geography and zoology.

A student majoring in anthropology is required to take: Anthropology 1-2; 5-6; 19, 20; 51, 52, and other courses depending upon individual interests, including some Columbia courses numbered 100 through 199 which she may elect in the junior and senior year with the consent of the Barnard department. A reading knowledge of German and/or Spanish is strongly recommended.

In addition to the general requirements, the following combinations of courses are suggested:

For students interested primarily in the biological aspects of anthropology: Course 18, zoology, genetics (either in botany or zoology), and geography.

For students interested primarily in the social sciences: Courses 3, 4; 17; 18; economics, geography, government, history, philosophy, psychology, religion, sociology, and the appropriate Columbia courses.

For students interested primarily in archaeology: Course 12, ancient history, classical civilization, geography, geology, and Columbia courses in the Departments of Anthropology and Fine Arts and Archaeology.

For students interested primarily in the humanities: Courses 9, 107, fine arts, language and literature, philosophy, and courses in primitive art, linguistics, and music at Columbia.

Majors of high standing may be invited to write a senior thesis. All majors must take the major examination which is in two parts (three hours each), and is designed to test ability to coordinate the work done in the major field.

1-2. Introduction to Anthropology. 6 points. [1]

The nature of man's society and culture: comparative study of economics, social and political organization, religion, art, and the individual in simple and complex societies. Problems of social change resulting from contacts between machine age cultures and non-literate groups living under varied geographical and technical conditions. Fulfils the requirement in contemporary society. PROFESSOR McCLELLAN and assistant. M W F 9. 335 Milbank.

3. Cultural Anthropology of the Old World. 3 points [5]

Survey of native cultures of Africa, Oceania and of tribal groups of Asia. DR. CHOWNING. M W F 2. 13 Milbank.

4. Cultural Anthropology of the New World. 3 points. PROFESSOR McCLELLAN.

Not given in 1958-59.]

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5–6. Human Evolution. 6 points.

[9]

The physical origin of man, his evolution and differentiation into races; consideration of the fossil record, racial criteria and population dynamics. Fulfils the non-laboratory biological science requirement. DR. CHOWNING. T Th 2:10–3:25. Minor Latham Playhouse.

9. The Study of Language. 3 points.

[6]

Language, thought and behavior patterns; relationship of language to culture. Methods and results in linguistics. DR. CHOWNING. T Th 9:10–10:25. 215 Milbank.

12. Prehistory. 3 points.

[5]

Prehistoric culture developments in the Old World; limited comparative data from the New World. PROFESSOR McCLELLAN. M W F 2. 13 Milbank.

[17. Religion in Primitive Society.] 3 points.

Not given in 1958-59.]

[18. Race in Society and Science.] 3 points.

Not given in 1958-59.]

19. History of Anthropological Theory. 3 points.

[10]

The historical development of the principal concepts in the various subfields of anthropology from the nineteenth through the early part of the twentieth century. Bi-weekly papers for the third point. Open only to juniors and seniors. Prerequisite: Course 1–2 or written permission of the instructor. PROFESSOR McCLELLAN. M W 3. 13 Milbank.

20. Current Anthropological Theory. 3 points.

[10]

Major theoretical concepts current in the various subfields of anthropology. Bi-weekly papers for the third point. Open only to juniors and seniors. Prerequisite: Course 1–2 or written permission of the instructor. PROFESSOR McCLELLAN. M W 3. 13 Milbank.

51, 52. Seminar in Anthropology. 6 points.

[0]

The specific subject for discussion will be determined by the interests of the students. Required of all majors during the senior year and ordinarily open only to them. Requires written permission of the instructor. Winter Session: PROFESSOR McCLELLAN; Spring Session: DR. CHOWNING. T 4–6. 13 Milbank.

53, 54. Senior Thesis. 6 points.

[0]

Topic to be chosen in consultation with the professor in charge. Weekly conference required. Hour to be arranged.

R107. The Study of Folklore. 3 points

[6]

Mythology, folktale, proverbs and other forms of expression. Analysis of style, characters and plot; significance of folklore in the study of culture. Greatest emphasis will be placed on material from non-literate societies. DR. CHOWNING. T Th 9 and for undergraduates, W 4. 13 Milbank.

BOTANY

ASSOCIATE PROFESSOR: ¹DONALD D. RITCHIE

ASSISTANT PROFESSOR: WILLIAM A. CORPE (Acting Executive Officer)

LECTURER: LAWRENCE J. CROCKETT

ASSISTANT: HELEN GREGORY

General objectives of a major in botany are: (1) to learn the classification of the major groups of plants, their structure, function, and relations to each other, to man, and to their environment; (2) to gain some insight into such unsolved problems as those concerning growth, energy relationships, and reproduction, and to have experience in the methods used in the attack on the problems.

All students majoring in botany take Course 1-2 and additional courses to make a total of 28 points. As a preliminary to graduate work, Courses 5-6, 151 and 161 are desirable, but for an introduction to the plant world, designed for personal satisfaction, or for preparation for immediate employment, other combinations are available, and are determined by the plans and desires of the student.

Related subjects: All botany majors are expected to take a year of chemistry. A student planning to become a professional botanist should also have as much physics, chemistry, zoology, and mathematics as her schedule permits. A reading knowledge of French or German or both will be necessary for graduate study. A botany student is also urged to study philosophy, history, and politics.

Major students are permitted to use space in the greenhouse for practical work in plant propagation.

Honors work: Majors are encouraged to undertake special projects, usually in the form of restricted research problems. These are not honors courses in the usual sense, but do require original investigation of biological problems, and may be rewarded by publication or special commendation.

A major examination is given which consists of a two-hour written test, with sampling questions taken from the whole field of botany, and a one-hour oral session in which each candidate is examined by the staff.

A joint major in Natural Resources is offered by the Department of Botany and Geology-Geography. See Interdepartmental Offerings, page 32.

1-2. General Botany. 8 points.

[6]

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants. Patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials correlated with laboratory studies. Emphasis upon the importance of plants to man. MR. CROCKETT and staff. Lec. T Th 9 and W 3. 335 Milbank. Lab. (2 hours) T 10-12; 2-4 or Th 2-4.

¹ Absent on leave, 1958-59.

BOTANY

1a—2a. General Botany. 6 points. [6]

Lectures identical with those of 1—2. No laboratory work. To follow or parallel: a laboratory science. MR. CROCKETT and staff. T Th 9 and W 3. 335 Milbank.

★G.S. Botany 3—4. Plant Geography. 6 points.

Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants. Prerequisite: ★G.S. Botany 1—2 or Course 1—2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6—6:50. 414 Pupin. Field work: Hours to be arranged.

[5, 6. Cytology. 10 points.

Not given in 1958-59.]

7. Plant Resources. 3 points. [5]

The origin, distribution and utilization of plants of primary economic importance. Plants considered include those utilized as sources of food and beverages, woods and fibers, rubber, medicines, oils, waxes, and gums. Emphasis throughout given to the relation between the use of these plants and the conservation of basic natural resources. This course does not satisfy the requirements of a laboratory science. MR. CROCKETT. Lec. M F 2. 312 Milbank. Demonstrations, conferences and trips. W 2—4.

8. Structure and Relationships of Flowering Plants. 4 points. [5]

Prerequisite: Course 1—2 or the equivalent. Frequent field trips. MR. CROCKETT. Lec. M F 2. 312 Milbank. Lab. (4 hours) M W 3—5.

9. Elementary Microbiology. 4 points. [5]

Introduction to study of bacteriological methods, representative types of micro-organisms, and their importance in human economy. PROFESSOR CORPE. Lec. M W 2. 324 Milbank. Lab. (4 hours) M W 3—5.

151. Introduction to Microbiology. 4 points. [9]

Survey of structure, distribution, and activities of microorganisms in soil, water, and foods. Some attention to industrial processes, antibiosis, causation of disease, and immunological reactions. Prerequisites: one year of college work in botany or zoology and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required. Open to juniors and seniors. PROFESSOR CORPE. Lec. T Th 2. 324 Milbank. Lab. (4 hours) T Th 3—5.

152. Advanced Microbiology. 4 points. [9]

Advanced cytological techniques, the growth curve, and variation in micro-organisms. Study of certain natural and important groups within the true bacteria, actinomycetes, and yeasts. Prerequisite: Course 151 or the equivalent. Writ-

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ten permission of the instructor is required. PROFESSOR CORPE. Lec. T Th 2.
324 Milbank. Lab. (4 hours) T Th 3-5.

160. Topics in Microbial Physiology. 5 points. [0]

Lectures, discussions, and selected laboratory studies in the field of physiological and chemical microbiology. Prerequisite: Course 151 or the equivalent. PROFESSOR CORPE. 324 Milbank. Hours to be arranged.

161, 162. Special Problems in Microbiology, Morphology, and Physiology. 2 to 8 points. [0]

Work planned to suit the needs and interests of the students. This course may be taken in successive years. Staff. Hours and credit by arrangement.

CHEMISTRY

PROFESSOR: ¹HELEN R. DOWNES (Executive Officer)

ASSOCIATE PROFESSORS: EDWARD J. KING, EMMA D. STECHER

INSTRUCTOR: BERNICE SEGAL

LECTURER: MARILYN HELLER

A major in chemistry is designed: (1) to make clear the orderly nature of the universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide for those students who wish it the necessary pre-professional training for careers in teaching, in medicine or in chemical research.

A student majoring in chemistry must fulfill the following requirements:

Chemistry courses: General Elementary Chemistry 1-2; Qualitative Analysis 23; Quantitative Analysis 24; Organic Chemistry 41-42 and Conferences in Chemistry 99. Physical Chemistry 105, 106, and Physical Chemistry Laboratory 107 are strongly advised.

Allied subjects: General physics should be taken as early as possible. Trigonometry and analytic geometry must be completed before taking quantitative analysis. A reading knowledge of German should be acquired before taking the second semester of organic chemistry. Majors are also strongly advised to take a year of calculus and to acquire a reading knowledge of French.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take Courses 105, 106 and 107 in addition to at least four points of advanced lectures and two points of advanced laboratory.

The major examination is given in two parts: The general factual material is covered in a three-hour Graduate Record examination, given in April of the senior year. Near the end of the senior year there is a four-hour examination of the essay type, designed to test the student's ability to assemble facts and co-ordinate material in some of the broader fields of chemical knowledge.

1-2. General Elementary Chemistry. 8 points.

[19]

Lectures on inorganic chemistry with emphasis on chemical principles and theories. A brief introduction to organic chemistry. This course is not divisible under any circumstances. PROFESSORS DOWNES and KING, MRS. HELLER and assistants.

Section I: Primarily for students with no previous chemistry: Lec. T Th 9, Th 11 and a recitation hour M 1 or 2 or F 1. 423 Milbank. Lab. (2½ hours) M T W or Th 2-4:30.

¹ Absent on leave, Spring Session.

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Section II: For students with high school chemistry: Lec. T Th 10 and a recitation hour M 1 or 2 or F 1. 423 Milbank. Lab. (2½ hours) M T W or Th 2–4:30.

- 1a–2a. General Elementary Chemistry.** 6 points. [19]

Lectures and recitations identical with those of 1–2. No laboratory work. Prerequisite: preceding or parallel, a laboratory science. PROFESSORS DOWNES and KING and MRS. HELLER. Lec. T Th 9 or 10 and a recitation hour M 1 or 2 or F 1. 423 Milbank.

- 23. Qualitative Analysis.** 6 points. [19]

Lectures on ionic equilibria. Laboratory work on a semi-micro scale. Prerequisite: Course 1–2, Mathematics 1 and preceding or parallel, Mathematics 30. Laboratory deposit, \$10. PROFESSOR KING and assistant. Lec. M W F 10. 423 Milbank. Lab. (minimum 6 hours) T Th 2–5 and, if warranted by the registration, T Th 9–12.

- 24. Quantitative Analysis.** 6 points. [19]

An introduction to basic quantitative techniques. Prerequisite: Course 23. Laboratory deposit, \$15. MRS. SEGAL and assistant. Lec. M W 10. 423 Milbank. Lab. (minimum 8 hours) T Th 2–6 and, if warranted by the registration, M W 2–6.

- 26. Quantitative Analysis, Special Course.** 6 points. [19]

For students who have not taken Course 23. Prerequisite: Course 1–2. Laboratory deposit, \$15. MRS. SEGAL and assistant. Lec. M W F 10. 423 Milbank. Lab. (minimum 6 hours) T Th 2–5.

- 41. Organic Chemistry.** Lectures (41a, 4 points). Laboratory (41b, 2 points). [1]

Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for many medical schools. Prerequisite: Course 1–2. Laboratory deposit, \$15. PROFESSOR STECHER and MRS. HELLER. Lec. M W F 9 and W 12. 423 Milbank. Lab. (minimum 6 hours) T Th 9–12 or 2–5.

- 42. Organic Chemistry.** Lectures (42a, 4 points). Laboratory (42b, 2 points). [1]

Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative organic analysis. Prerequisite: Courses 1–2, 41 and, except with special permission, 23, 24. With special permission non-majors may take the lectures without the laboratory. Laboratory deposit, \$15. PROFESSOR STECHER and MRS. HELLER. Lec. M W F 9 and W 12. 423 Milbank. Lab. (minimum 6 hours) T Th 9–12, and, if warranted by the registration, T Th 2–5.

- 64. Advanced Analytical Chemistry.** 3 points. [0]

Lectures and laboratory work on quantitative analysis with instruments. Open to students who have completed the major requirements. Laboratory deposit, \$15. PROFESSOR KING. Lec. M 1. Lab. M 2–5, W 2–4. 407 Milbank.

CHEMISTRY

99. Conferences in Chemistry. 2 points. [0]

Readings and discussion of selected topics. Required of majors in their senior year. PROFESSORS DOWNES, KING and STECHER. F 2-4. 423 Milbank.

105, 106. Physical Chemistry. 6 points. [3]

Chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium. Except by special permission, chemistry majors must elect Course 107 parallel to 105. Prerequisite: Course 1-2; Physics 3-4 and Mathematics 30 and 31. PROFESSOR KING. Lec. M W F 11. 423 Milbank.

107. Physical Chemistry Laboratory. 3 points. [0]

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Prerequisite: Courses 23, 24; Physics 3-4; Mathematics 30 and 31. Laboratory deposit, \$15. PROFESSOR KING. Lab. (minimum 6 hours). T Th 2-5. 407 Milbank.

108. Advanced Physical Chemistry Laboratory. 3 points. [0]

Projects suggested by recently published work. Lectures on instrumental methods. Prerequisite: Courses 107; 106 (parallel). Laboratory deposit, \$15. PROFESSOR KING. Lec. T 2. 407 Milbank. Lab. (minimum 5 hours) T 3-5, Th 2-5.

137, 138. Problems in Chemistry. 4, 6, or 8 points. [0]

Advanced individual laboratory projects for students who have completed the major requirements except Course 99. Laboratory deposit, \$15 each session. PROFESSORS KING and STECHER. Hours and credit by arrangement.

145. Organic Chemistry, Advanced Course. 3 points. [4]

Modern theories of the mechanisms of organic reactions and the chemistry of some natural products, for students who have completed the major requirements except Course 99. PROFESSOR STECHER. Lec. M W F 1. 311 Milbank.

[150. Physiological Chemistry.] 3 points.

Not given in 1958-59.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of the courses will be found in the Announcement of the Graduate Faculties. The following course is suggested:

★177. Methods of Chemical Analysis for Vitamins and Other Food Constituents. 4 or 6 points.

CLASSICAL CIVILIZATION (See GREEK AND LATIN)

DRAMA

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. In addition to the formal work of the Barnard Drama Workshop (see page 54), students take part in *Wigs and Cues* (the college dramatic club), the *Gilbert and Sullivan Society*, the Spanish, French, German, and Italian Clubs, the Junior Show, the several dance and music groups, the *Barnard Bulletin's* dramatic column, and WKCR (the campus radio station). There are opportunities to study production on and off Broadway. As might be expected, the life of the college is colored by New York's interest in the dramatic arts.

The students major in various departments, bringing to the Playhouse their special abilities. Among the courses concerned with the theatre are these, described in detail in the departmental announcements:

ENGLISH

- 13, 14. Dramatic Writing.** 4 or 6 points. **MR. TEICHMANN.**
- 21–22. Voice and Diction.** 6 points. **PROFESSOR NORMAN and Miss CAUGHRAN.**
- R21. Voice and Diction.** 3 points. _____.
- 23, 24. Oral Interpretation of Literature.** 6 points **PROFESSORS HIBBITT and NORMAN.**
- 27, 28. Public Speaking and Debate.** 4 or 6 points. **PROFESSOR NORMAN.**
- 29, 30. The Actor's Interpretation of Dramatic Literature.** 4 points.
_____.
- 33–34. Play Production.** 8 or 4 points. **MR. SWEET and MR. BUCHAN.**
- 35–36. Drama Colloquium.** 2 points. **Members of the Workshop Staff.**
- 63. Shakespeare and the Elizabethan Mind.** 3 points. **PROFESSOR ROBERTSON.**
- 69. Development of English Drama from its Beginnings to 1642.** 3 points. **PROFESSOR PATTERSON.**
- 70. English Drama from the Restoration to the End of the Nineteenth Century.** 3 points. **MR. SWEET.**
- 86. Drama from Ibsen to the Present.** 3 points. **PROFESSOR ULANOV.**

FINE ARTS

- 70. European and American Architecture from the Eighteenth Century into the Twentieth Century.** 3 points. **PROFESSOR BYRAM.**

D R A M A

FRENCH

- 17, 18. French Phonetics.** 6 points. PROFESSOR PLEASANTS.
23. The French Classical Theatre. 3 points. PROFESSOR BREUNIG.
30. French Theatre in the Twentieth Century. 2 or 3 points. PROFESSOR BREUNIG.

GERMAN

- 5, 6. Introduction to the Study of German Literature from the Eighteenth Century to the Present.** 6 points. PROFESSOR STABENAU.
25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.

GREEK AND LATIN

- Greek 21. Greek Tragedy.** 3 points. _____.
Latin 26. Roman Drama. 3 points. _____.

ITALIAN

- [**20. Italian Drama.** 2 or 3 points. PROFESSOR BOVÉ.
Not given in 1958-59.]

MUSIC

- R16. The Opera.** 3 points. PROFESSOR LUENING.
39-40. Composition. 4 points. PROFESSOR LUENING.
***131-132. Advanced Composition.** 4 points. PROFESSOR BEESON.

PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in Modern Dance and Fencing are particularly useful.

SPANISH

- 17-18. The Spanish Drama of the Golden Age.** 6 points. PROFESSOR DEL RÍO.

ECONOMICS

PROFESSOR: ¹RAYMOND J. SAULNIER

ASSOCIATE PROFESSORS: CLARA ELIOT, ¹MARION HAMILTON GILLIM, ROBERT LEKACHMAN (Acting Executive Officer)

INSTRUCTORS: JAMES R. O'CONNOR, -----

LECTURER: -----

ASSISTANT: -----

Economics examines that substantial share of human activity which affects conditions of living. The major is planned to give each student an understanding of important aspects of economic life as a background both for informed citizenship and also for a career in business, government, research, or teaching. The courses offered treat the history of economic institutions and thought; current economic affairs, both national and international; and methods of economic research and analysis. A student may arrange her program to fit her special interests.

A student majoring in economics will be required to take Courses 1-2, 27 or 28, and 51-52. Courses 5-6 or 7-8, and 17, 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology. See also Interdepartmental Offerings, page 32.

There will be no major examination. The senior seminar will be required of all majors. Some members of this seminar will be invited to write a senior essay; the work of the others in the seminar will be tested by appropriate examination.

1-2. Introductory Economics. 6 points.

[13]

A study of the institutions and forces affecting the stability and growth of income and employment. Subjects covered include: Business and labor organization, national income and its determination, economic theory, economic fluctuations, monetary economics, government finance, international economic relations, and the problems of underdeveloped countries. May be counted towards the requirement in contemporary society. PROFESSOR LEKACHMAN, MR. O'CONNOR and -----.

Section I M W F 9. 202 Milbank.

Section II M W F 10. 207 Milbank.

Section III T Th 9:10-10:25. 407 Barnard.

Section IV T Th 2:10-3:25. 309 Milbank.

[3. Economic Problems of the Consumer. 2 or 3 points. PROFESSOR ELIOT. Not given 1958-59.]

¹ Absent on leave, 1958-59.

ECONOMICS

- [4. Personal Finance.** 2 or 3 points. **PROFESSOR ELIOT.**
Not given 1958-59.]
- [5-6. European Economic History.** 6 points.
Not given 1958-59.]
- 7-8. American Economic History.** 6 points. [4]
The American economy beginning with the colonial period in the light of current theories of economic growth. —————. M W F 1. 409 Barnard.
- R9. Money and Banking.** 3 points. [7]
A survey of the organization and functioning of the commercial banking system, the Federal Reserve System, and other American monetary and financial institutions. Leading issues of public policy with respect to money and credit will be discussed. Prerequisite: Course 1-2 or permission of the instructor. **MR. O'CONNOR.** T Th 10:35-11:50. 517 Milbank Penthouse.
- [R15. Government Finance and Fiscal Policy.** 3 points. **PROFESSOR GILLIM.**
Not given 1958-59.]
- 17, 18. Introductory Statistics.** 6 points. [1]
Winter Session: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Session: Index numbers; time series; non-linear correlation; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. **PROFESSOR ELIOT.** Lec. M W 9. 212 Milbank. Lab. (2 hours) M W 3-5 or T 3:30-5:30.
- 19, 20. Labor Economics.** 6 points. [9]
Winter Session: Historical and theoretical approaches to the labor movement and the collective bargaining process. Spring Session: Empirical and theoretical approaches to the structure of the labor market and the determination of wages and employment. Course 19 may be counted towards the requirement in contemporary society. Open to all except freshmen. **MR. O'CONNOR.** Winter Session: T Th 2:10-3:25. Spring Session: T Th 2, and additional hours for field work to be arranged. 321 Milbank.
In-Service Training Program: A limited number of opportunities for on-the-job training are offered in connection with this course. Additional points will be credited for such work under Course 61, 62. Students wishing to participate must plan their program with the instructor before registration.
- R24. International Economics.** 3 points. [3]
International trade and finance; foreign investment; barriers to trade; the foreign economic policy of the United States; trade agreements; and steps towards international economic cooperation and economic development. Prerequisite: Course 1-2 or permission of the instructor. —————. M W F 11. 517 Milbank Penthouse.
- 27. Development of Economic Thought.** 3 points. [2]
Economic thought from Adam Smith to Alfred Marshall, with some attention to the dissenting views of Marx and Veblen. Original sources. Prerequisite:

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Course 1-2 or permission of the instructor. PROFESSOR LEKACHMAN.
M W F 10. 517 Milbank Penthouse.

- 28. Economic Analysis.** 3 points. [2]

Covers the major topics of modern theory: prices, income distribution, modern demand theory, and Keynesian economics. Prerequisite: Course 1-2. PROFESSOR LEKACHMAN. M W F 10. 517 Milbank Penthouse.

- [29. Economic Fluctuations.]** 3 points.

Not given in 1958-59.]

- 30. The Economics of Underdeveloped Areas.** 3 points. [3]

The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. Prerequisite: Course 1-2; Course R24 is strongly recommended. ----- M W F 11. 315 Milbank.

- R32. Comparative Economic Systems.** 3 points. [7]

A description of the economic problems of the United States, England and Russia, and a comparison of the economic organization of these countries with abstract conceptions of capitalism and socialism. May be counted towards the requirement in contemporary society. Open to all except freshmen.
MR. O'CONNOR. T Th 10:35-11:50. 215 Milbank.

- 51-52. Economics Seminar.** 6 points. [0]

Reading, reports and discussion. Required for senior majors. The department will invite some members of the seminar to submit a senior essay and will examine the others on a list of readings designed to increase their understanding of economics. PROFESSOR LEKACHMAN. W 3-5. 409 Barnard.

- 61, 62. Studies in Economics.** 2 to 4 points. [0]

Additional credits may be obtained in this course for supervised work done in connection with some other course in economics. Special reports, a term paper or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.

- 63, 64. Statistical Projects.** 2 to 6 points. [0]

Individual research projects in economics or social studies. Experience in gathering and analyzing data, possible field work, or supervised work with off-campus research organizations. Frequent individual conferences. Prerequisite: Course 17 and permission of the instructor. PROFESSOR ELIOT. Hours to be arranged.

- [123, 124. Financial Institutions.]** 6 points. PROFESSOR SAULNIER.

Not given in 1958-59.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business. Students should consult their major advisers in making course selections.

EDUCATION

The following interdepartmental programs are supervised by the Committee on Education:

HELEN P. BAILEY, Dean of Studies, Chairman

JOSEPH G. BRENNAN, Associate Professor of Philosophy

VIRGINIA D. HARRINGTON, Associate Professor of History

TRACY S. KENDLER, Associate Professor of Psychology

WILLIAM W. CUMMING, Assistant Professor of Psychology

—————, Assistant Professor of Education

JOSEPHINE J. MAYER, Instructor in Education

THE PRESIDENT, *ex-officio*

These programs are open only to qualified seniors whose applications are approved by the Committee on Education. They are designed to offer, within the context of a liberal arts curriculum, an introduction to the field of education. They afford a minimum of twelve points towards certification for teaching; full certification requires courses of study beyond the Barnard offerings.

The first two courses are directly concerned with teaching in elementary and secondary schools. The third course, the Colloquium, provides opportunity for discussion of educational topics of general interest and enrollment is not limited to those planning to enter the teaching profession. The programs do not constitute a major; they are taken in conjunction with a major in some other subject.

Students attracted to the field of teaching should discuss their plans and questions concerning the Barnard offerings with the Chairman of the Committee before the end of the sophomore year. Juniors who wish to apply for admission to one or the other of the programs should file application forms which may be obtained from the Office of the Dean of Studies during the month of March.

Education 1-2. Introduction to the Theory and Practice of Teaching in the Elementary School. 8 points [9]

Observation and student teaching in public and private schools provide the basis for class discussions, demonstrations and lectures on methods, materials and principles of elementary school teaching. Prerequisite: Psychology 1 or R1.

—————. T Th 8:30-12:30 and T 2-4. 215 Milbank.

Education 3-4. Introduction to the Theory and Practice of Teaching in the Secondary School. 8 points. [9]

This course affords observation and student teaching in public and private schools. The experiences of observation and participation furnish the basis for study of principles, methods, and materials for effective teaching in the secondary school. Prerequisite: Psychology 1 or R1. Miss MAYER. T Th 8:30-12:30 and T 2-4. 407 Barnard.

BARNARD COLLEGE

Education 5–6. Colloquium on Educational Trends and Problems.

[11]

4 points.

This course offers discussion of trends and problems in education, with particular emphasis on contemporary developments and experiments. Open to all seniors. Required for all students taking Education 1–2 or Education 3–4. Guest speakers with experience in the field of education will participate in the colloquium as well as members of the Barnard and Columbia faculties. PROFESSOR BRENNAN, Director. Th 2–4. 29 Milbank.

RELATED COURSES

English 21–22. Voice and Diction. 6 points.

[0]

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech and a pleasing voice. Registration limited to 15 students. Written permission of the instructor required. PROFESSOR NORMAN and Miss CAUGHRAN. Section I M W F 11. 410 Barnard. Section II M W F 1. 410 Barnard. Section III T Th 10:35–11:50. 410 Barnard.

English R21. Voice and Diction. 3 points.

[0]

Same as Course 21, but given in Spring Session. ——————. T Th 9:10–10:25. 410 Barnard.

History 43. The History of Education in the United States. 3 points.

[5]

Development of education in the United States against the background of political, philosophical, religious, and scientific thought. Emphasis upon the social and intellectual forces which have shaped education. PROFESSOR HARRINGTON. M W F 2. 309 Milbank.

Philosophy 84. The Philosophy of Education. 3 points

[5]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman and Dewey as well as contemporary critics. PROFESSOR BRENNAN. M W F 2. 4 Milbank.

Psychology 15. Educational Psychology of Learning. 3 points.

[3]

An introduction to the psychology of learning designed for students interested in education. Among the topics emphasized are basic learning principles, punishment, complex learning, appraisal of learning, and learning theories. Prerequisite: Course 1 or the equivalent. Open to all except freshmen. PROFESSOR CUMMING. M W F 11. 335 Milbank.

Psychology 27. Psychology of Childhood. 4 points

[2]

The process of early childhood development and the factors that influence it.

EDUCATION

Particular emphasis is given to the unfolding of sensori-motor and intellectual abilities and personality formation. Observation of children in nursery school and other settings for one hour each week. Reports in connection with observations for the fourth point. Prerequisite: Course 1 or the equivalent. PROFESSOR KENDLER. M W F 10. 315 Milbank. Each student will also attend one of the following discussion sections: F 1, 2, or 3.

Psychology 28. Psychology of Later Childhood and Adolescence.

[2]

3 or 4 points.

Continuation of the study of development in older children and adolescents, with increasing emphasis on the role of experience and social influences. Consideration is also given to atypical development, including the gifted, retarded, disturbed, handicapped and delinquent child or youth. Reports in connection with observation for the fourth point. Prerequisite: Course 27. PROFESSOR KENDLER. M W F 10. 315 Milbank.

ENGLISH

PROFESSORS: ¹W. CABELL GREET, JOHN A. KOUWENHOVEN, DAVID A. ROBERTSON, JR. (Chairman of the Department)

ASSOCIATE PROFESSORS: ²LUCYLE HOOK, ²LORNA F. MCGUIRE, ELEANOR ROSENBERG (Director of English A), ELEANOR M. TILTON

ASSISTANT PROFESSORS: ²ROSALIE COLIE, GEORGE P. ELLIOTT, RICHARD A. NORMAN, REMINGTON P. PATTERSON (Secretary and Examinations Officer), BARRY ULANOV

ADJUNCT ASSISTANT PROFESSOR: HOWARD M. TEICHMANN

ASSOCIATES: INEZ G. NELBACH, ADOLPHUS J. SWEET

INSTRUCTORS: ELIZABETH CAUGHRAN, MARCUS KLEIN, JOANN RYAN MORSE, ROBERT PACK

LECTURERS: PETER BUCHAN, MARJORIE HOUSEPIAN DOBKIN, RUTH M. KIVETTE, JANICE FARRAR WEEKS

ASSISTANT: MARGARET D. HANCE

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSORS: ²JAMES L. CLIFFORD, MARJORIE HOPE NICOLSON, JANE D. ZIMMERMAN

ASSOCIATE PROFESSOR: GEORGE W. HIBBITT

ASSISTANT PROFESSOR: BERT M-P. LEEFMANS

A major in English: If you plan to major in English, you should aim at these objectives: to have in mind the main outlines of literary history, to gain some knowledge of the development of the English language, to increase your ability to read with understanding the principal writers in English, to extend your familiarity with a chosen portion of the department's work (literature, drama, writing, speech), and to improve your writing.

To qualify as an English major, you should plan to take the departmental examination in the data of literary history not later than the spring of your sophomore year; you must pass it by October of your junior year. The examination is given twice a year, in October and March. For independent preparation, C. G. Osgood's *Voice of England* and G. M. Trevelyan's *English Social History* are recommended.

The major examination is in three parts. You will not be required to take Part III (one and a half hours), an examination in the history of the language, if you have received a grade of C or better in a half-year course numbered from 50 to 59. Parts I and II (three hours each) require critical comment on passages of prose and verse, and composition of essays on literary topics. Candidates will be expected to have read a good deal of Chaucer, Shakespeare, Milton, and some major writers, English and American, of the eighteenth, nineteenth, and twentieth centuries.

¹ Absent on leave, Spring Session.

² Absent on leave, 1958-59.

ENGLISH

You should arrange, in consultation with your major adviser, a program including (a) three half-year courses numbered from 50 to 69; (b) three half-year courses numbered from 70 to 89; (c) Course 91, 92, in both junior and senior years; (d) Course 93 (or R93) in the junior year; (e) four half-year courses in the special field of your choice (literature, drama, writing, speech). If you elect literature, you must take Course 97, 98 in the senior year.

Majors in English are urged to take History 11-12 and at least one full year of work in a foreign literature.

INTRODUCTORY COURSES

All transfer students and foreign students are required to take the English Proficiency Test before registering for Course A1-A2 or any other English course.

A1-A2. Reading and Writing. 6 points.

[0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with instructor. Prescribed for freshmen except in a few special cases. The only other English courses open to freshmen are Courses 19, 20; 21-22, R21; 27, 28, any of which may be taken parallel to A1-A2. PROFESSOR ROSENBERG and members of the department.

Sections of Course A1-A2 meet at the following hours: M W F 9, 10, 11, 12, 1, 2. T Th 9:10-10:25, 10:35-11:50, 2:10-3:25.

All sections meet in Barnard Hall. Room assignments will be posted outside Room 401 Barnard.

D1, D2. Speech. No credit.

[0]

Individual speech examinations for transfer students who have not had the equivalent of, and are not enrolled in, English A1. PROFESSOR NORMAN. Hours to be arranged.

WRITING

General prerequisite, Course A1-A2. To elect any course in writing, a student must secure the written permission of the instructor in charge, or of PROFESSOR ELLIOTT.

1, 2. English Composition. 6 points.

[0]

A course designed especially for students who need additional training in composition beyond the first-year level. Emphasis on correct and clear expression, and sound organization of materials. Students may take either semester or both. Cannot be counted towards a major in English. MR. KLEIN and MRS. MORSE. T Th 10:35-11:50. 409 Barnard.

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3, 4. Structure and Style. 6 points.

[0]

An advanced course in composition, including study of exposition, narration, description, and argumentation. Weekly compositions required. Students may take either semester or both. MR. PACK. M W F 2. 409 Barnard.

5, 6. Advanced Composition. 6 points.

[0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either semester or both. PROFESSOR KOUWENHOVEN. M W F 2. 411 Barnard.

Note: The following courses are open only to those who have passed at least one semester of Courses 3, 4, 5, or 6 with a grade of B— or better, or who have received written permission from PROFESSOR ELLIOTT.

11, 12. Story Writing. 6 points.

[0]

Three short stories are written each term. Weekly individual conferences with the instructor, group discussion of technical problems, and wide reading in the short story. Course 11 is prerequisite to Course 12. PROFESSOR ELLIOTT. T Th 2:10—3:25. 411 Barnard.

13, 14. Dramatic Writing. 4 or 6 points.

[0]

The development of a dramatic situation in terms of short fiction, the theatre, television, motion pictures, and radio. MR. TEICHMANN. T Th 2:10—3:25. 406 Barnard.

SPEECH

The work of English majors with a special interest in speech should include Course 21—22 and two half-year courses in public speaking, discussion and debate, or oral interpretation. If possible, the student should also complete work in one of the courses in speech correction given at Teachers College. For courses important to students of speech, other than those listed below, see Courses 29, 30; 33—34; 53; 55. The college dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, WKCR, offer practical experience.

For further information on work in speech consult Professor Norman.

19. Informal Speaking. 1 point.

[0]

Practice in discussion and speaking to small groups for students who wish help in making themselves understood and who wish experience in thinking on their feet. MISS CAUGHRAN. Th 9. 411 Barnard.

20. Informal Speaking. 1 point.

[0]

Same as Course 19, but given in Spring Session. PROFESSOR NORMAN. M 12. 411 Barnard.

ENGLISH

21–22. Voice and Diction. 6 points. [0]

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech and a pleasing voice. Registration limited to 15 students. Written permission of the instructor required. PROFESSOR NORMAN and Miss CAUGHRAN. Section I M W F 11. 410 Barnard. Section II M W F 1. 410 Barnard. Section III T Th 10:35–11:50. 410 Barnard.

R21. Voice and Diction. 3 points. [0]

Same as Course 21, but given in Spring Session. —————. T Th 9:10–10:25. 410 Barnard.

23, 24. Oral Interpretation of Literature. 6 points. [0]

Analysis and presentation of various types of literature: Ballads, lyric and narrative poems, monologues, and essays. PROFESSORS HIBBITT and NORMAN. Section I M W F 9. 410 Barnard. Section II M W F 9. 411 Barnard.

27, 28. Public Speaking and Debate. 4 or 6 points. [0]

Winter Session: Composition and delivery of formal and informal speeches; study of logical and psychological factors in persuasive speaking. Spring Session: Study and practice in participation in panel discussions, committees, and informal discussion groups; techniques of argumentation and debate; parliamentary procedure. PROFESSOR NORMAN. T Th 2:10–3:25. 410 Barnard.

Note: The following courses, given at Teachers College, are open only to English majors whose special field is speech and to majors in psychology. See your major adviser.

Education 261 KE. Speech Development and Correction. 2 or 3 points.

A study of the speech problems of students on the kindergarten, elementary, secondary, and adult school levels. Demonstrations are given. PROFESSOR ZIMMERMAN. Winter Session: F 7:30–9:10 p.m. 125 Macy.

Education 261 KEx–262 KEx. Speech Improvement Laboratory. 2 or 4 points.

This course supplements Education 261 KE with supervised observation and practical experience with children and high school students who have speech problems. PROFESSOR ZIMMERMAN. S 11–12:30 (children); F 6–7:15 (high school students). 125 Macy.

Education 261 K. Speech Pathology. 3 points.

Consideration of disorders of articulation, phonation, rhythm, and symbolization: classification, methods of diagnosis, and therapy. Prerequisite: Education 261 KE. PROFESSOR ZIMMERMAN and special lecturers. Winter Session: T 5:10–6:50. 125 Macy. Spring Session: F 7:30–9:10. 125 Macy.

BARNARD COLLEGE

DRAMA

The work of English majors specializing in drama involves the Barnard Drama Workshop program (which includes English courses numbered from 29 to 39 and combines scholarly and artistic work); the courses in dramatic literature (63; 69, 70; 86); and the course in dramatic writing (13, 14). See page 42 for related courses in other departments. The Workshop program is designed not only for English majors but also for students from other departments who have a special interest in the theatre.

In addition to the Workshop productions, *Wigs and Cues*, the *Gilbert and Sullivan Society*, and WKCR afford opportunities for the practice of the dramatic arts.

English majors specializing in drama will normally take Course 33-34 in lieu of 97, 98.

For further information consult Mr. Sweet.

29, 30. The Actor's Interpretation of Dramatic Literature. 4 points. [0]

The study and practice of the ways in which the actor illuminates and creates meaning. Students with speech problems should not take this course; they should instead take Course 21-22 or consult Professor Norman.

F 2-4. Minor Latham Playhouse.

[31, 32. Dramatic Literature in the Contemporary Theatre. 4 points.]

Not given in 1958-59.

33-34. Play Production. 8 or 4 points. [10]

A study of the ways in which the dramatic arts fulfill the intention of the playwright. Each semester the class will study intensively a play representative of some significant period or tradition and near the end of the semester will present the play. The work on this production will lead to an examination of other plays of the same type. Prerequisite: Course 29, 30 or other evidence of competence in some phase of dramatic work, and the written permission of one of the instructors. MR. SWEET and MR. BUCHAN. M W F 4-6:30, T Th 4:30-6:30. Certain highly qualified students may elect to take only the M W F classes (rehearsal) or the T Th classes (stagecraft). Minor Latham Playhouse.

35, 36. Drama Colloquium. 2 points. [0]

Discussions with members of the Workshop staff and lectures by distinguished speakers from the professional theatre. Open only to students who are taking, or have taken, Courses 29, 30; 31, 32 or 33-34. Members of the Workshop Staff. W 3-4. Minor Latham Playhouse.

ENGLISH

LANGUAGE AND LITERATURE

Courses marked thus § will count towards the literature part of the humanities requirement.

[40. **The English Language: History and Use.** 3 points. PROFESSOR GREET.

Not given in 1958-59.]

§41, §42. **Introduction to English Literature.** 6 points. [11]

A general view of the scope and variety of English literature through study of selected writers and their works. Winter Session: *Beowulf* through Dryden. Spring Session: 1700 to the present. PROFESSORS PATTERSON and LEEFMANS, MISS NELBACH, MRS. MORSE and MR. KLEIN. Section I M W F 9. 101 Barnard. Section II M W F 11. 301 Barnard. Section III M W F 1. 301 Barnard.

[43. **The Tradition of the Humanities** (same as **Classical Civilization 87**). 3 points.

Not given in 1958-59. See **Classical Civilization R58.**]

44. **Masterpieces of the Middle Ages.** 3 points. [2]

Important works in the European literary tradition from 354 to 1485, read in translation. Miss NELBACH. M W F 10. 409 Barnard.

53. (also ★263). **Anglo-Saxon Language and Literature.** 3 points. [1]

An introduction to the study of Anglo-Saxon. This course cannot be counted towards the literature requirement for the degree. PROFESSOR GREET. W F 9. 511 Philosophy.

§55. **Chaucer.** 3 points. [8]

The language and literature of England in the Middle Ages, with emphasis on Chaucer's *Canterbury Tales*. PROFESSOR GREET. T Th 10:35-11:50. 301 Barnard.

§61. **The Tudor Renaissance.** 3 points. [3]

The New Learning, the Reformation, the New World; Tudor historians, poets, and playwrights. PROFESSOR ROSENBERG. M W F 11. 408 Barnard.

§63. **Shakespeare and the Elizabethan Mind.** 3 points. [3]

An introduction to the meaning, scope, and greatness of Shakespeare. PROFESSOR ROBERTSON. M W F 11. Minor Latham Playhouse.

§66. **Milton and Seventeenth-Century Literature.** 3 points. [3]

The poetry of Jonson and the "classical" poets, Donne and the "metaphysicals," with some readings in prose; the major works of Milton. PROFESSOR ROSENBERG. M W F 11. Minor Latham Playhouse.

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§69. Development of English Drama from its Beginnings to 1642. [2]

3 points.

Miracle plays, moralities, and interludes; Elizabethan, Jacobean, and Caroline drama. PROFESSOR PATTERSON. M W F 10. 408 Barnard.

§70. English Drama from the Restoration to the End of the Nineteenth Century. [2]

3 points.

The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. MR. SWEET. M W F 10. 409 Barnard.

§72. The English Novel. 3 points. [5]

A study of prose fiction based on significant English novels of the eighteenth, nineteenth, and twentieth centuries. PROFESSOR ELLIOTT. M W F 2. 408 Barnard.

§73, §74. English Literature of the Eighteenth Century. 6 points. [8]

Winter Session: Pope, Swift, and the Augustans. Spring Session: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR NICOLSON and MRS. WEEKS. T Th 11, M 4.

On Tuesday and Thursday mornings the class will attend the lectures of ★English 213, 214. 307 Philosophy. The Monday afternoon session will be a discussion. 409 Barnard.

§75. English Poets of the Romantic Period. 3 points. [5]

The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in the light of contemporaneous theories of poetry and of present-day criticism. PROFESSOR ELLIOTT. M W F 2. 408 Barnard.

§78. Victorian Poets. 3 points. [3]

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. PROFESSOR ROBERTSON. M W F 11. 408 Barnard.

§79, §80. American Literature. 6 points. [6]

Winter Session: The New England background, 1620-1889, with consideration of the revolt from the domination of New England in the twentieth century. Spring Session: American realism and naturalism in prose and poetry, 1867-1950, with consideration of experiments in form and style by such writers as James, Stein, Pound, and Eliot and with attention to such groups as the modern Southern school. PROFESSOR TILTON. T Th 9:10-10:25. 408 Barnard.

82. Shapes of American Experience. 3 points. [10]

Studies of form and structure in literature and other arts. Each student will keep a notebook, summarizing and commenting upon the readings and other aspects of the work. Prerequisite: a year of American history or literature. PROFESSOR KOUWENHOVEN. M 3 (lecture), W 3-5 (discussion). 411 Barnard.

ENGLISH

83. Modern Literature and the Allied Arts. 3 points. [9]

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theatre, and the motion picture. Gallery trips and record-listening.
PROFESSOR ULANOV. T Th 2:10–3:25. 408 Barnard.

86. Drama from Ibsen to the Present. 3 points. [9]

Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. T Th 2:10–3:25. 408 Barnard.

COURSES FOR MAJORS

91, 92. The English Conference. 2 points. [0]

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors. This course is required of all English majors in both junior and senior years. It is not open to other students. PROFESSORS GREET and ULANOV and members of the department. Th 3:35–4:25. College Parlor.

93 (or R93). Literary Criticism: Analysis and Appreciation. 3 points. [0]

The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works in the history of literary criticism. Frequent short papers.

Course 93 (or R93) is required of all English majors in the junior year. Registration in each section is limited. Consult Mrs. Hance before completing program. PROFESSORS ROSENBERG, TILTON, and ULANOV, MRS. MORSE, MR. KLEIN, and MR. PACK. Section I M 2–4. 410 Barnard. Section II W 3–5. 406 Barnard. Section III T 4–6. 406 Barnard.

97, 98. Studies in Literature. 6 points. [0]

The purpose of each section is to study intensively a limited portion of the field. A combination of two sections, one of Course 97 and one of Course 98, is required in the senior year of all English majors who elect advanced work in literature, rather than in drama, writing, or speech. Registration in each section is limited. Consult Mrs. Hance before completing program. MEMBERS OF THE DEPARTMENT.

Winter Session:

Section I. Medieval English. PROFESSOR GREET. T 3:35–5:25 402 Barnard.

Section II. Renaissance Literature. PROFESSOR ROSENBERG. W 3–5. 405 Barnard.

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Section III.	Eighteenth-Century Literature.	MRS. MORSE.	M 3-5.	405
Barnard.				
Section IV.	American Literature.	PROFESSOR KOUWENHOVEN.	W 3-5.	
411 Barnard.				
Section V.	Contemporary Poetry.	MR. PACK.	T 3:35-5:25.	405
Barnard.				

Spring Session:

Section I.	Shakespeare.	PROFESSOR PATTERSON.	W 3-5.	405
Barnard.				
Section II.	Nineteenth-Century Literature.	PROFESSOR ROBERTSON.	T 3:35-	
5:25.	411 Barnard.			
Section III.	American Literature.	PROFESSOR TILTON.	T 3:35-5:25.	
405 Barnard.				
Section IV.	Comparative Literature.	PROFESSOR ULANOV.	W 3-5.	407
Barnard.				
Section V.	Contemporary Literature.	MR. KLEIN.	M 3-5.	405
Barnard.				

FINE ARTS

PROFESSORS: JULIUS S. HELD, MARION LAWRENCE (Executive Officer)

ASSOCIATE PROFESSOR: ¹JANE G. MAHLER

ASSISTANT PROFESSOR: MARIANNA BYRAM

INSTRUCTOR: BARBARA NOVAK

STUDIO ASSISTANT: JULIANA CUYLER

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSOR: OTTO J. BRENDL

ASSISTANT PROFESSOR: EDITH PORADA

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will finally gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulations of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In several courses a third hour offers opportunities for discussions in small groups. Most courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Studio techniques are taught only in Course 1-2, but students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 62 for regulations governing these courses.

Majors in Fine Arts are required to take the seminar, 97-98, and courses in ancient, medieval, renaissance, baroque and modern art. Studio courses do not count towards the major. A reading knowledge of French, German or Italian is highly desirable, especially for students who expect to do graduate work.

The major examination is in two sections of three hours each and is designed to test (1) the student's overall knowledge of the field, (2) her ability to analyze individual works of art, and (3) her competence in one special field, chosen by her in consultation with her major adviser and in which she has been working in the senior seminar.

1-2. Introduction to the Study of Fine Arts. 4, or with laboratory, 6 points. [8]

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York City.

¹ Absent on leave, Winter Session.

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Laboratory work: Drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

This course satisfies the non-literature requirement in the humanities. DR. NOVAK. T Th 11. 204 Milbank. Laboratory: Section I Th 9-11. 417 Barnard. Section II Th 2-4. 417 Barnard.

43. Introduction to Ancient Art. 3 points.

[10]

A survey of the ancient art of Egypt, Mesopotamia, Greece and Rome down to the time of Constantine with emphasis on the major arts—architecture, painting and sculpture. Open to all except freshmen. ★History 5, 6 is recommended as a parallel course. PROFESSOR BRENDL. M W 3. 204 Milbank. Visits to the Metropolitan Museum of Art, F 3:30, or at hours to be announced.

51, 52. Medieval Art. 6 points.

[5]

Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, then the Celtic, Carolingian and Romanesque styles of western Europe with emphasis on mosaics and illuminated manuscripts. Spring Session: Romanesque sculpture of France, Romanesque architecture of Italy and France and Gothic architecture, sculpture and painting, ending with the introduction of the Italian Renaissance into France. Open to juniors and seniors. History 7, 8 is recommended as a parallel course. Course 51 is prerequisite to Course 52. PROFESSOR LAWRENCE. M W F 2. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2, or at hours to be arranged. 204 Milbank.

[54. Byzantine Art. 3 points.

Not given in 1958-59.]

61. European Architecture from the Renaissance through the Rococo Style. 3 points.

[2]

Starting with the Italian Renaissance the course will cover the major developments in European architecture from the fifteenth century through the Rococo style of the eighteenth century. One or two term examinations and possibly one or two short papers. Open to all except freshmen. PROFESSOR BYRAM. M W F 10. 204 Milbank.

[63. European Sculpture, Renaissance and Modern. 3 points. PROFESSOR BYRAM.

Not given in 1958-59.]

65. Renaissance Painting in Northern Europe. 3 points.

[9]

Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. PROFESSOR HELD. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. 204 Milbank.

FINE ARTS

- 66. Italian Renaissance Painting.** 3 points. [9]

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. PROFESSOR BYRAM. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. 204 Milbank.

- [**R68. Prints and Drawings.** 3 points. PROFESSOR BYRAM.]

Not given in 1958-59.]

- 70. European and American Architecture from the Eighteenth into the Twentieth Century.** 3 points. [2]

The classic revival in France, Germany, and England. The last third of the course is on American architecture from the eighteenth century to the present. Open to all except freshmen. PROFESSOR BYRAM. M W F 10. 204 Milbank.

- 75, 76. European Painting since the Renaissance.** 6 points. [7]

The artists of Mannerism and Baroque (El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt), the influence on art of Counter-Reformation and Absolutism. Spring Session: The artists of the Rococo (Watteau); Classicism and Romanticism (David, Goya, Delacroix); Realism, Impressionism, and the emergence of modern art (Courbet, Manet, Cézanne, Van Gogh, Picasso). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. PROFESSOR HELD. T Th 10:35-11:50. Minor Latham Playhouse.

- 77. American Art from Colonial Times to the Armory Show.** 3 points. [4]

The development of the arts in America from colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. DR. NOVAK. M W F 1. 204 Milbank.

- 78. Modern European and American Painting.** 3 points. [4]

Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin to Pollock. Open to all except freshmen. DR. NOVAK. M W F 1. 204 Milbank.

- 82. Masterpieces of Art in the New York Museums.** 3 points. [13]

Designed to acquaint students with some of the great artistic treasures assembled in New York and to sharpen their aesthetic and historical understanding in front of the originals themselves.

Open only to fine arts majors. Limited to fifteen students. PROFESSOR HELD. T F 3:30-5.

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91, 92. Oriental Art. 6 points.

[3]

The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting and frescoes and minor arts. The arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints. Open to all except freshmen. Winter Session: PROFESSOR PORADA; Spring Session; PROFESSOR MAHLER. MWF 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged. 204 Milbank.

97-98. Seminar for Majors. 6 points.

[13]

A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and a term paper in the second semester on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR LAWRENCE. Th 3-5. 813 Schermerhorn.

TECHNICAL COURSES

Studio courses can count towards the degree only if taken parallel to a theoretical or historical course in fine arts. A maximum of 12 points of studio work may be credited towards the degree. Junior and senior majors are exempt from special fees.

★G.S. Drawing 1-2. The Grammar of Art. 4 points.

Drawing and painting. Orientation of the student to art as a language. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts. Through personal supervision, the student is guided in the practice of drawing and painting. Course 1 is prerequisite to Course 2, except on written permission of the instructor. Special fee, \$60 each session and model fee, \$5 each session. PROFESSOR MANGRAVITE assisted by MR. DORSAY. Section I M Th 1-3. Section II M Th 3-5. Section III TF 9-10:50. Section IV TF 11-1. East Hall.

★G.S. Drawing 3-4. The Grammar of Art. 4 points.

The elementary principles of three-dimensional drawing and painting studied from organic forms and from the human figure. Their proportion, action, character and design are stressed, and the synthesis of drawing and painting emphasized. Prerequisite: Course 1-2, or equivalent experience. Special fee, \$60 each session and model fee, \$5 each session. PROFESSOR MANGRAVITE assisted by MR. DORSAY and MR. WYATT. Section I M Th 10-12. Section II T Th 3-5. East Hall.

Other studio courses given at Columbia University may be taken by written permission of the Executive Officer of the department. These courses are de-

scribed in the Announcement of the School of General Studies under Painting and Sculpture.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the Executive Officer of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties. The following are specifically recommended as suitable for Barnard seniors:

- ★120. Prehistoric Art. 3 points PROFESSOR WINGERT.
- ★121. Primitive Art and its Contributions to Modern Art. 3 points. PROFESSOR WINGERT.
- ★139. Greek Myths and Monuments. 3 points. DR. HENLE.
- ★143C. Greek Sculpture and Painting of the Fourth Century B.C. 3 points. PROFESSOR HARRISON.
- ★R143D. Hellenistic Sculpture and Painting. 3 points. PROFESSOR BRENDL.
- ★154B. Romanesque Painting. 3 points. PROFESSOR SCHAPIRO.
- ★157. Gothic Sculpture. 3 points. PROFESSOR BRANNER.
- ★162. Italian Sculpture of the Early Renaissance. 3 points. PROFESSOR LAWRENCE.
- ★164. Northern Italian Painting of the Fifteenth Century. 3 points. PROFESSOR DAVIS.
- ★170. Spanish and Latin American Art. 3 points. PROFESSOR COLLINS.
- ★172. Italian Architecture of the Seventeenth and Eighteenth Centuries. 3 points. PROFESSOR WITTKOWER.
- ★175. Italian Painting of the Seventeenth and Eighteenth Centuries. 3 points. PROFESSOR WITTKOWER.
- ★176B. Flemish Painting of the Sixteenth and Seventeenth Centuries. 3 points. PROFESSOR HELD.
- ★179A. American Architecture. 3 points. PROFESSOR UPJOHN.
- ★183. Modern Architecture. 3 points. PROFESSOR COLLINS.
- ★186. Modern Painting since 1900. 3 points. PROFESSOR SCHAPIRO.
- ★195. Art and Archaeology of Iran, Afghanistan and India. 3 points. PROFESSOR PORADA.

FRENCH

ASSOCIATE PROFESSORS: HELEN PHELPS BAILEY, LEROY BREUNIG (Executive Officer), ANDRÉ MESNARD, ISABELLE DE WYZEWA

ASSISTANT PROFESSOR: ¹RENÉE J. KOHN

ASSOCIATE: HELEN M. CARLSON

INSTRUCTORS: ELIZABETH BLAKE, RENÉE GEEN, —————

LECTURERS: TATIANA GREENE, ANTOINETTE NOEL HOFFHERR

VISITING LECTURER: MAURICE ESCHAPASSE

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSOCIATE PROFESSOR: JEANNE VARNEY PLEASANTS

A major in French has two main objectives: (a) to perfect fluency in the written and the spoken language, and (b) to develop appreciation of the literature and culture of France.

A student majoring in French must take an advanced composition course, 13, 14; an advanced oral course, 17–18; and three literature courses in addition to Course 7–8. The Special Reading Seminar, 37–38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39–40, as one of their literature courses.

Other fields: Courses in history, fine arts, or other fields which vary with the interest of the student should be elected after consultation with the department.

The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

LANGUAGE COURSES

1–2. Introductory Full-Year Course. 8 points.

[14]

Grammar, reading, composition. Work in the phonetics studio is part of the course. PROFESSOR MESNARD and MISS BLAKE. Section I M T W Th F 9. 321 Milbank. Section II M T W Th F 11. 321 Milbank.

3, 4. Intermediate Course. 6 points.

[14]

Review of grammar and syntax. Translation, reading, oral practice, free composition. Prerequisite: Course 1–2 or two years of high school French. MRS. HOFFHERR and MRS. GEEN.

Section I M W F 12. 311 Milbank.

Section II M W F 1. 207 Milbank.

Section III M W F 2. 321 Milbank.

¹ Absent on leave, 1958-59.

FRENCH

R4. Intermediate Course. Part II. 3 points. [2]

The equivalent of Course 4 but given in the Winter Session. Prerequisite: Course 3 or three years of high school French. MISS BLAKE. M W F 10. 321 Milbank.

5x, 6x. Practical Course in Sight Reading and Prepared Translation. [14] 6 points.

Texts chosen to develop ease and accuracy in handling a variety of styles and subjects: historical, philosophical, artistic, scientific, as well as literary prose. Especially intended for students wishing to prepare for the foreign language test in French and majors in other subjects who need to understand and translate French texts for reference purposes. Prerequisite: Course 3, 4 or three years of high school French. MISS CARLSON, MISS BLAKE and _____.

Section I	M W F 9.	4 Milbank.
Section II	M W F 10.	(Winter Session only.) 4 Milbank.
Section III	M W F 11.	311 Milbank.
Section IV	M W F 12.	4 Milbank.

R5x. Practical Course in Sight Reading and Prepared Translation. [2] 3 points.

The equivalent of Course 5x but given in the Spring Session. Prerequisite: Course 4 or three years of high school French. MISS CARLSON. M W F 10. 4 Milbank.

5, 6. Discussion and Composition Based on Readings in French Literature. [14] 6 points.

A study based on prose and poetry of the nineteenth and twentieth centuries. Discussion in French of texts read. Free composition, grammar review. Practice in both intensive and extensive reading. Prerequisite: Course 3, 4 or three years of high school French. PROFESSOR DE WYZEWA, DR. GREENE and MR. ESCHAPASSE.

Section I	M W F 1.	319 Milbank.
Section II	T Th 9:10–10:25.	207 Milbank.
Section III	T Th 10:35–11:50.	311 Milbank.

R5. Discussion and Composition Based on Readings in French Literature. [2] 3 points.

The equivalent of Course 5 but given in the Spring Session. Prerequisite: Course 4 or R4. MRS. GEEN. M W F 10. 203 Milbank.

11–12. Review of Grammar and Composition.¹ 4 points. [6]

Intended primarily for those taking literature courses who desire a review of

¹ Conducted entirely in French.

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grammar and syntax. There will be translation from English into French and weekly compositions. Open to students of all classes on written permission of the instructor. Limited to 10 students. PROFESSOR MESNARD. T Th 9. 12 Milbank.

13. Advanced Translation. 2 points.

[10]

Translation from French into English of various styles of prose and poetry. Open only on written permission of the instructor. PROFESSOR BREUNIG. M W 3. 12 Milbank.

14. Advanced Composition.¹ 2 points.

[10]

Translation from English into French. Composition, preparation of critical essays and articles. Open only on written permission of the instructor. PROFESSOR MESNARD. M W 3. 12 Milbank.

15–16. Oral French, Intermediate Full-Year Course.¹ 4 points.

[15]

Pronunciation, recitation, conversations based on selected readings. Work in the phonetics studio is part of the course. Prerequisite: Course 5 or the equivalent, and the written permission of the department. MRS. GEEN and _____. Section I M W 3. 209 Milbank. Section II T Th 2. 39 Milbank.

17–18. French Phonetics.¹ 6 points.

[1]

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the phonetics studio is part of the course. Open to students on written permission of the instructor. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9. 12 Milbank.

LITERATURE COURSES

The ability to use French both in speaking and in writing is a requirement for all literature courses.

Students who have not taken Course 7–8 or the equivalent must receive written permission from the instructor in order to take the more advanced literature courses beginning with 21, 22.

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C— or higher is obtained.

§7–§8. Masterpieces of Literature from the Middle Ages to the Twentieth Century. 6 points.

[14]

Lectures in French on the history of French literature, analysis of texts, recitations, discussions. Essays and reports on outside reading. Winter Session: *La Chanson de Roland* through Molière. Spring Session: Voltaire through Proust.

¹ Conducted entirely in French.

FRENCH

Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: Course 5, 6; Course 4 with a grade of at least B; or three years of high school French and the written permission of the department. **PROFESSORS DE WYZEWA and BREUNIG, DR. GREENE and MRS. HOFFHERR.**

Section I	M W F 11.	319 Milbank.
Section II	M W F 1.	203 Milbank
Section III	M W F 2.	311 Milbank.
Section IV	T Th 9:10–10:25.	311 Milbank.

§9, §10. Introduction to French Civilization. 6 points. [9]

The social, artistic, literary and scientific activities of the French people in the formation of their national life. Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: Course 5, 6; Course 4 with a grade of at least B; or three years of high school French and the written permission of the department. **PROFESSOR MESNARD.** T Th 2:10–3:25. 12 Milbank.

§21, §22. French Literature in the Middle Ages and the Renaissance. 6 points. [4]

Study of selected works of literature with reference to the history and art of the respective periods. **MISS CARLSON.** M W F 1. 4 Milbank.

§23. The French Classical Theatre. 3 points [3]

The principles of French classical tragedy and comedy. Detailed study of masterpieces of Corneille, Racine, and Molière. **PROFESSOR BREUNIG.** M W F 11. 12 Milbank.

§24. French Prose and Poetry in the Seventeenth Century. 3 points. [3]

A study of classical prose in the works of Descartes, Pascal, Bossuet and the “écrivains mondains.” The poetry of Saint-Amant, Malherbe, LaFontaine and Boileau. **PROFESSOR BREUNIG.** M W F 11. 12 Milbank.

§25, §26. French Literature in the Eighteenth Century. 6 points. [2]

The chief essayists, novelists, and dramatists of the period in their most significant works and letters. **PROFESSOR DE WYZEWA.** M W F 10. 12 Milbank.

§27, §28. French Literature in the Nineteenth Century. 6 or 8 points. [6]

Representative works of the principal authors and literary movements from early Romanticism through Symbolism. Winter Session: Fiction and drama. Spring Session: Poetry. **PROFESSOR BAILEY.** T Th 9:10–10:25. 517 Milbank Penthouse.

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§29. French Prose in the Twentieth Century. 3 points. [7]

The major novelists and essayists since Symbolism. MR. ESCHAPASSE.
T Th 10:35–11:50. 4 Milbank.

§30. French Theatre in the Twentieth Century. 2 or 3 points. [9]

The major dramatists and theatrical movements since Naturalism and Symbolism.
MR. ESCHAPASSE. T Th 2. 207 Milbank.

37–38. Special Seminar. 4 or 6 points. [0]

Projects organized around a specific theme in French literature. The topic for
1958–59 is the relationship between literature and art from Stendhal to Malraux.
MR. ESCHAPASSE. M W 2. 12 Milbank.

39–40. Senior Thesis. 6 points. [0]

Research into a precise topic of French literature and the preparation of a long
essay. Open to seniors with honor grades. The essay satisfies in part the major
examination requirement. PROFESSOR BREUNIG and MEMBERS OF THE DE-
PARTMENT. Hours for consultation to be arranged.

125. Contemporary French Poetry. 3 points. [9]

French poetry from Symbolism to the present with analyses of significant
poems since 1885. PROFESSOR BREUNIG. Th 2:10–4. Maison
Française.

GEOLOGY AND GEOGRAPHY

PROFESSOR: HENRY S. SHARP (Executive Officer)

ASSOCIATE PROFESSOR: LEONARD ZOBLER

LECTURER: JANE LANCASTER

ASSISTANT: MARLYN MANGUS

GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view towards the earth.

A student majoring in geology will, after the beginning earth science course, take Courses ★11-12, 19, ★21, 27, and 60 in partial fulfillment of the major requirement. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science and under certain circumstances such courses may count towards the major; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in geology at a minimum.

The major examination in geology will consist of the Graduate Record Examination and a three-hour written examination.

GEOGRAPHY

Geography evaluates the impact of the physical environment upon contemporary society. It thus stands midway between the natural sciences and the social sciences. A major in geography must, therefore, attain an understanding of both fields of knowledge through required courses in geography and geology plus an adequate selection of courses in economics, sociology, anthropology, government, and history. The comparative evaluation of various world environments is studied in regional geography; Barnard courses may be supplemented, subject to the approval of the department, by continental courses on Asia, Africa, Europe, and Latin America, offered by Columbia University.

Majors may concentrate on selected foreign areas by taking related courses in geography and in the language and culture of their area of interest. Subject to departmental requirements special programs may be planned for those expecting to work or live abroad or to take the examination for Foreign Service.

The major examination requirement in geography will be fulfilled by a one-

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hour examination on the use of maps plus the completion of Course R60 and the writing of a senior essay.

NATURAL RESOURCES

A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 32.

GEOGRAPHY

1, 2. Physical Geography. 6 points.

[7]

Designed to give the student an understanding of those aspects of the physical environment which are a part of daily experience; they should be of especial value to prospective teachers. Winter Session: The size and shape of the earth, latitude and longitude, cartography, the use of maps, earth-sun relations, time, navigation, weather and climate. Spring Session: The earth's crust, rocks and minerals, origin of landforms, hydrology, formation of soils, genesis and distribution of mineral resources. These courses satisfy the non-laboratory physical science requirement. Students having Geology 1 or 1a should not take Course 2. PROFESSOR ZOBLER. T Th 10:35-11:50. 129 Milbank.

3, 4. World Regional Geography. 6 points.

[3]

Comparative evaluation of world regions and the distribution of agricultural and mineral resources, industry, and population; of especial value to students of social science and to prospective teachers. Winter Session: World agricultural-climatic regions, resource development, population pressure, and economic trends in tropical, temperate, and polar regions. Interaction of physical and cultural factors. Problems of underdeveloped areas. Spring Session: Distribution and availability of mineral and power resources, bases for manufacturing and economic growth in the developed and lesser developed areas. Raw material problems and the population-resource equation. Course 3 is a desirable though not a required prerequisite for Course 4. Together they satisfy the contemporary society requirement. PROFESSOR ZOBLER. M W F 11. 202 Milbank.

12. Conservation of Natural Resources. 3 points.

[5]

A study of renewable and non-renewable material resources. Emphasis is placed on the basic scientific principles which guide the development of field conservation methods. Consideration is also given to economic, political, social, and administrative factors involved in policy formulation. Soil and water conservation, forests, minerals, fisheries, wild-life, national parks, multi-purpose projects (TVA). One-day field trip required. Prerequisite: One term of earth science or the permission of the instructor. This course fulfills in part the contemporary society requirement. PROFESSOR ZOBLER. M W F 2. 212 Milbank.

15E. Regional Geography of Eastern United States. 3 points.

[5]

Examination of the distinctive characteristics of the regions of eastern United States against their background of economic history and the interplay of natural resources. Consideration is given to selected national and local resource issues, growth trends, inter-regional competition, and the role of each region in the

GEOLOGY AND GEOGRAPHY

national economy. Alternates with Course 15W. It fulfills in part the contemporary society requirement. Not open to freshmen. **PROFESSOR ZOBLER.** M W F 2. 212 Milbank.

- [15W. **Regional Geography of Western United States and Canada.** 3 points.
PROFESSOR ZOBLER. This course alternates with 15E.
Not given in 1958-59.]

- R17. Cartography.** 3 points. [13]

Principles governing choice of projection, scale, and grid in map making; methods of depicting relief; use of aerial photographs; evaluation of source material. Prerequisite: One year of geology or geography. **MISS LANCASTER.** T Th 3. 212 Milbank.

- R60. Seminar in Geography.** 3 points. [0]

Introduction to the philosophy and literature of geography. Practice in doing original research. Discussions and readings. Students are required to prepare a research report on an assigned topic. Required for senior majors. **PROFESSOR ZOBLER.** T 2-4. 212 Milbank.

GEOLOGY

- 1. Physical Geology.** 4 points. [2]

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. **PROFESSOR SHARP and Miss MANGUS.** Lec. M W F 10. Minor Latham Playhouse. Lab. (2 hours) M 2-4; T 9-11; T 2-4; W 3-5; Th 3-5. 210 Milbank.

- 2. Historical Geology.** 4 points. [2]

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required Saturday field trip. Prerequisite: Course 1, 1a, or Geography 2. **PROFESSOR SHARP and Miss MANGUS.** Lec. M W F 10. Minor Latham Playhouse. Lab. (2 hours) M 2-4; T 9-11; T 2-4; W 3-5; Th 3-5. 210 Milbank.

- 1a. Physical Geology.** 3 points. [2]

Lectures and assignments identical with those of Course 1. No laboratory work. Students are strongly advised to take geology with laboratory especially for the first semester. To follow or parallel a laboratory science. With Course 2a it satisfies the non-laboratory science requirement. Limited to 20 students. **PROFESSOR SHARP.** M W F 10. Minor Latham Playhouse.

- 2a. Historical Geology.** 3 points. [2]

Lectures and assignments identical with those of Course 2. No laboratory

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work. Prerequisite: Course 1 or 1a. With Course 1a it satisfies the non-laboratory science requirement. PROFESSOR SHARP. M W F 10. Minor Latham Playhouse.

*11-12. Elements of Mineralogy and Lithology. 6 points.

The sight recognition and uses of the common minerals and rocks and an introduction to the microscopic identification of minerals. Emphasis on minerals of economic importance and of widespread occurrence. PROFESSOR HOLMES. T Th 11 and T or W 2-4. 417 Schermerhorn.

19. Structural Geology. 3 points.

[10]

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips. Prerequisite: Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years. PROFESSOR SHARP. M W F 3. 212 Milbank.

*21. Introduction to Paleontology. 3 points.

The nature and significance of fossils with methods of identification and discussion of their meaning in the development of present-day organisms. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. Lec. T F 12. Lab. (2 hours) T 2-4 or F 2-4. 212 Schermerhorn.

26. (Also *Geology 134). Geomorphology of Europe. 3 points.

[4]

Lectures, map study, and readings on the geomorphic divisions of Europe. Given in triennial sequence with similar courses on the eastern and western United States. Prerequisite: One year of geology. PROFESSOR SHARP. M W F 1. 212 Milbank.

27. Principles of Geomorphology. 3 points. PROFESSOR SHARP.

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1958-59.]

[28E. (Also ★Geology 132). Geomorphology of the Eastern United States. 3 points. PROFESSOR SHARP.

Given in triennial sequence with similar courses on the western United States and Europe.

Not given in 1958-59.]

*53. Geology of the New York Region. 1 point.

This course consists of about six day-length field trips to selected localities within 100 miles' radius of New York City. An illustrated field notebook will be maintained by each student. Prerequisite: Courses 1 and 2. PROFESSOR FAIRBRIDGE and assistants. Dates to be arranged.

60. Seminar in Geology. 3 points.

[0]

A seminar course with discussions, problems, and readings on various topics in geology. Prerequisite: A year of geology. Open to juniors and seniors. PROFESSOR SHARP. W 3-5. 212 Milbank.

GERMAN

ASSISTANT PROFESSOR: LOUISE G. STABENAU (Executive Officer)

ASSOCIATE: GERTRUD SAKRAWA

INSTRUCTOR: ¹WILLY SCHUMANN

LECTURER: URSULA L. JARVIS

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is expected to take 28 points of work above the elementary level. Normally these should include Courses 5, 6; 25, 26 or 27, 28; 35; 45, 46; 52.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, history of art, history, philosophy and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German.

The major examination consists of two three-hour written sections and an oral section of at least one hour.

LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1.

1-2. Beginners' Full-Year Course. 6 points. [15]

Elements of grammar, easy reading, written and oral practice. Course 1a-2a should be taken as a parallel course. PROFESSOR STABENAU, Miss SAKRAWA and MR. SCHUMANN. Section I M W F 9. 207 Milbank. Section II M W F 11. 207 Milbank. Section III M W F 2. 207 Milbank.

1a-2a. Oral Practice. 2 points. [0]

Conversation as extension of the work in Course 1-2. Open also to students in Course 3, 4 without previous oral training. PROFESSOR STABENAU, Miss SAKRAWA and MR. SCHUMANN. Section I T Th 9. 133 Milbank. Section II T Th 10. 133 Milbank. Section III T Th 11. 133 Milbank.

3, 4. Intermediate Course. 6 points. [15]

Intensive and extensive reading of nineteenth and twentieth century literature. Frequent short compositions in German. Grammar review during winter session.

¹ Absent on leave, Winter Session.

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Prerequisite: Course 1-2 or two years of high school German. Miss SAKRAWA, MRS. JARVIS and MR. SCHUMANN. Section I M W F 12. 321 Milbank. Section II M W F 1. 321 Milbank.

3a, 4a. Intermediate Oral Practice. 2 points. [0]

Conversation as extension of the work in Course 3, 4. Especially recommended to students preparing for courses in literature. Prerequisite: Course 1a-2a or permission of the department. Miss SAKRAWA. T Th 11. 212 Milbank.

[§7, §8. Advanced Translation.] 6 points. PROFESSOR STABENAU.

Not given in 1958-59.]

[9, 10. Advanced Practice Course.] 4 or 6 points. MISS SAKRAWA.

Not given in 1958-59.]

LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C- or higher is obtained.

All courses are conducted in German.

§5, §6. Introduction to the Study of German Literature from the Eighteenth Century to the Present. 6 points. [2]

Intensive reading and discussion of significant works in prose, poetry and the drama. Short papers and oral reports in German. Occasional practice in the art of translation. Prerequisite: Courses 4 and 4a or a high grade in three years of high school German. PROFESSOR STABENAU and Miss SAKRAWA. Section I M W F 9. Section II M W F 10. 133 Milbank.

[§25, §26. German Drama in the Nineteenth and Twentieth Centuries.]

4 or 6 points. PROFESSOR STABENAU.

Not given in 1958-59.]

§27, §28. Prose Fiction from the Eighteenth Century to the Present. 6 points. [9]

A critical study of representative works by Goethe, Kleist, Keller, Fontane, Thomas Mann, Hesse, Kafka and others. Several short papers. Miss SAKRAWA. T Th 2. 133 Milbank.

[§29. German Romanticism.] 2 or 3 points. MR. SCHUMANN.

Not given in 1958-59.]

[§31. German Lyric Poetry from Goethe to the Present.] 2 or 3 points. Miss SAKRAWA.

Not given in 1958-59.]

GERMAN

§R35. Goethe's Faust. 2 or 3 points.

[6]

Intensive study of Parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motive in earlier centuries. Three papers for third point. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR STABENAU. T Th 9. Hour for third point to be arranged. 29 Milbank.

§45, §46. History of German Literature from the Earliest Times to the Nineteenth Century. 6 points. [15]

A study of representative works on the background of social and cultural conditions. Lectures and discussions. Prerequisite: Course 5, 6 or permission of the department. MR. SCHUMANN and —————. T Th 3:10—4:25. 133 Milbank.

[55, 56. German Literature in English Translation.] 6 points.

Not given in 1958-59.]

CIVILIZATION COURSE

[52. Introduction to German Culture.] 3 points. MISS SAKRAWA.

Not given in 1958-59.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Graduate Faculties.

GOVERNMENT

PROFESSOR: THOMAS P. PEARDON

ASSOCIATE PROFESSOR: ¹PHOEBE MORRISON

ASSISTANT PROFESSOR: JOHN B. STEWART (Executive Officer)

INSTRUCTOR: JOSEPH K. ROBERTS, JR.

LECTURERS: JIMMYE ELIZABETH KIMMEL, JIRINA HRAZDILLOVA

The department has defined a major in government as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer, or to engage in any similar activity.

A student majoring in government should take Course 1, 2 and at least two other fundamental courses such as those offered in international relations (11, 12), constitutional law (25, 26), and political theory (31, 32). She should then select more specialized courses in accordance with her field of interest and in conference with her adviser.

A student majoring in government may, with the written permission of the adviser, offer as part of the required 28 points, 6 points in history. When such courses are counted towards the major in government, they may not also be counted towards the satisfaction of the requirement in other social sciences described below.

A student majoring in government must acquire a reading knowledge of some foreign language. For those students interested in the Foreign Service and similar activities, the department will plan special programs adjusted to the additional language requirements.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

After the end of the junior year the department will invite a small number of senior majors to present a senior thesis, and to defend it orally before the department, in lieu of a major examination.

At the end of the senior year there will be a major examination of three hours for every student not writing a senior thesis. In addition, every student will revise to the satisfaction of the department one piece of writing undertaken during the senior year.

See also Other Interdepartmental Offerings, page 32, and International Relations, page 29.

FUNDAMENTAL COURSES

1, 2. Modern Constitutional Democracies. 6 points.

Governmental institutions, popular representation and the theory of modern

¹ Absent on leave, 1958-59.

GOVERNMENT

democracy in the United Kingdom, the United States, Canada and France, with illustrative material from Australia and India. May be counted towards the requirement in contemporary society. Course 1 is a prerequisite for Course 2. Sections II and III are open to freshmen.

Section I	PROFESSOR STEWART.	M W F 10.	301 Barnard	[2]
Section II	MR. ROBERTS.	M W F 12.	202 Milbank.	[12]
Section III	PROFESSOR STEWART.	T Th 10:35–11:50.	37 Milbank.	[7]
Section IV	MR. ROBERTS.	T Th 2:10–3:25.	301 Barnard.	[9]

7, 8. Modern Political Movements. 6 points. [12]

Recent changes in the politics of continental Europe, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism, and the growth of Christian democracy. Will satisfy the requirement in contemporary society. Prerequisite: Course 1, 2 or History 1–2. PROFESSOR PEARDON. T 4–6. 202 Milbank.

9. American Political Parties and Practices. 3 points. [5]

Public opinion, the role of pressure groups, and the operation of the party system. First-hand observation of political campaigns and legislative bodies and civic organizations is required. Prerequisite: Course 1, 2 or History 9–10. May be counted towards the requirement in contemporary society. MR. ROBERTS. M W F 2. 101 Barnard.

10. American State and Municipal Government. 3 points. [5]

American state and municipal government with illustrative material from the United Kingdom and France. Such modern problems as the revision of state constitutions and city charters, state-federal and state-municipal relations. Field work is required. Prerequisite: Course 9. May be counted towards the requirement in contemporary society. MR. ROBERTS. M W F 2. 101 Barnard.

11. International Relations. 3 points. [1]

An analysis of the setting and basic factors in contemporary world politics. Open to all except freshmen. MISS KIMMEY. M W F 9. 215 Milbank.

12. International Organization. 3 points. [1]

An analysis of the proposals for reconstructing a stable international society. The experience of The Hague Conferences, the League of Nations and the Organization of American States as well as that of the United Nations. Open to all except freshmen. MISS KIMMEY. M W F 9. 215 Milbank.

[25, 26. The Constitution of the United States.] 6 points. PROFESSOR MORRISON.

Not given in 1958-59.]

BARNARD COLLEGE

- 31, 32. The History of Political Thought.** 6 points.

[3]

Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR STEWART. M W F 11. 129 Milbank.

SPECIALIZED COURSES

- 15. The Soviet Union.** 3 points.

[4]

An analysis is made of the political theory and institutions of the U.S.S.R.; the Soviet State and its revolutionary origins; the Communist Party, governmental agencies, and the "mass organizations"; the place of the individual in Soviet society; internationalism and "Soviet patriotism"; developments since World War II. Prerequisite: Course 1, 2 or History 1-2. MISS HRAZDILLOVA. M W F 1. 309 Barnard.

- 16. The U.S.S.R. in World Affairs.** 3 points.

[4]

Soviet foreign policy since 1917. Diplomacy and communist internationalism during the first two decades of Soviet rule; World War II and its aftermath; current trends. Prerequisite: Course 1, 2 or History 1-2. MISS HRAZDILLOVA. M W F 1. 309 Barnard.

- 18. The United States in Contemporary World Politics.** 3 points.

[9]

Important decisions in American foreign policy since World War II. Discussion of the United Nations, the movement toward European integration, the problem of foreign aid, and the creation of regional defense systems. Open to juniors and seniors. MISS KIMMEL. T Th 2:10-3:25. 202 Milbank.

- [27. Administration and Modern Government.]** 3 points.

Not given in 1958-59.]

- 45, 46. Special Reading.** 2 or 4 points.

[0]

Selected problems in politics and government are examined. This course may be taken only on written permission. MEMBERS OF THE DEPARTMENT. M 3 or W 2 or Th 3.

- 61, 62. Senior Seminar.** 6 points.

[0]

Significant issues and trends in contemporary politics are developed through readings, discussions and the preparation of papers. This course may be taken only on written permission; intended primarily for government majors, but may be taken by seniors majoring in related fields. MISS HRAZDILLOVA. Th 4-6. 29 Milbank.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

★179. Political Institutions of China. 3 points.

An analysis of modern Chinese political developments with particular emphasis on the forces responsible for both the democratic and communist revolutions.
PROFESSOR MORLEY. W 4:35–6:15. 302 Hamilton.

★180. Political Institutions of Japan. 3 points.

The political structure of Japan under the Meiji Constitution, with special reference to the development of parties and the influence of special interests in government since 1890. The course will conclude with a brief survey of the postwar order and its prospects for permanence. **PROFESSOR MORLEY.** W 4:35–6:15. 302 Hamilton.

GREEK AND LATIN

PROFESSOR: JOHN DAY (Executive Officer)

ASSISTANT PROFESSOR: _____

LECTURER: JACQUELINE D. CHITTENDEN

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: MOSES HADAS, GILBERT HIGHET

ASSOCIATE PROFESSOR: HOWARD N. PORTER

INSTRUCTORS: HERBERT W. BENARIO, JAMES W. HALPORN, CHARLES H. KAHN

The general objectives towards which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-four points in Greek and 4 points in archaeology or classical civilization or Greek history.

A major in Latin: Twenty-four points in Latin and 4 points in archaeology or classical civilization or Roman history.

A major in Greek and Latin combined: The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields: The work in other fields will vary with the special interest of the student and should be arranged in consultation with the department. Students will find it profitable to take courses in Greek history, or in Roman history, or in both. A reading knowledge of French and German is advised.

The major examination at the end of the senior year consists of two three-hour examinations, the exact delimitation of which is determined by the special interests and preparation of the student, and by the major subject she chooses. In general, the examination will cover translation into English; translation of English into one or the other or both of the classical languages; ancient history and civilization; literature, with a more searching examination in a "special author" to be chosen by the student. The department will, upon request, provide a list of suggested readings which should be of assistance in preparation for the examination.

CLASSICAL CIVILIZATION

R58. Masterpieces of Greek Thought. 3 points.

[3]

A study of great Greek books and compositions of smaller compass, from the point of view of thought. Aristotle's *Ethics* and *Poetics* and selected plays of the great dramatists. May be counted towards the non-literature requirement in the humanities. PROFESSOR DAY. M W F 11. 411 Barnard.

[87. The Tradition of the Humanities (same as English 43). 3 points.

Not given in 1958-59.]

GREEK AND LATIN

GREEK LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C— or higher is obtained.

1–2. Introductory Course. 6 points. [5]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2.
———. M W F 2. 209 Milbank.

§11. Plato: Apology; Euripides: One Play. 3 points [2]

Prerequisite: Course 1–2 or three years of high school Greek or permission of the department. Course ★19–20 is strongly recommended as a parallel course.
PROFESSOR DAY. M W F 10. 29 Milbank.

§12. Selections from Homer and Herodotus. 3 points. [2]

Prerequisite: Course 1–2 or three years of high school Greek or permission of the department. Course ★19–20 is strongly recommended as a parallel course.
———. M W F 10. 29 Milbank.

★19–20. Prose Composition: First Course. 2 points.

May be taken in connection with any reading course in Greek (except Course 1–2), but not separately, and may be taken for credit in two different years. Particularly recommended to students who have taken only Course 1–2.
———. Th 1. 510 Hamilton.

§21. Greek Tragedy. 3 points. [3]

Prerequisite: Courses 11 and 12 or permission of the department. ———.
M W F 11. 29 Milbank.

§22. Greek Historians: Selections from Herodotus and Thucydides. 3 points. [3]

Prerequisite: Courses 11 and 12 or permission of the department. PROFESSOR DAY. M W F 11. 29 Milbank.

Courses 21, 22, and 25 (Greek Oratory), 26 (Greek Comedy) are offered in alternate years.

★29–30. Prose Composition: Advanced Course. 2 points.

Prerequisite: Course ★19–20 or the equivalent. May be taken in connection with any reading course in Greek, but not separately, and may be taken for credit in two different years. DR. HALPORN. T 1. 512 Hamilton.

LATIN LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C— or higher is obtained.

BARNARD COLLEGE

1–2. Introductory Course. 6 points. [4]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2.
MRS. CHITTENDEN. M W F 1. 29 Milbank.

3. Vergil: Selections from Aeneid I–VI. 3 points [5]

Prerequisite: Two or three years of high school Latin or the equivalent. Course ★19–20 is strongly recommended as a parallel course. **MRS. CHITTENDEN.** M W F 2. 407 Barnard.

4. Cicero: Selections; Ovid: Selections. 3 points. [5]

Prerequisite: Two or three years of high school Latin or the equivalent. Course ★19–20 is strongly recommended as a parallel course. **MRS. CHITTENDEN.** M W F 2. 407 Barnard.

§11. Selections from Latin Literature. 3 points. [4]

Prerequisite: Course 3 or 4 or four years of high school Latin. Course ★19–20 is strongly recommended as a parallel course. —————. M W F 1. 39 Milbank.

§12. Horace: Odes and Epodes. 3 points. [4]

Prerequisite: Course 3 or 4 or four years of high school Latin. Course ★19–20 is strongly recommended as a parallel course. **PROFESSOR DAY.** M W F 1. 39 Milbank.

★19–20. Prose Composition: First Course. 2 points.

May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. Strongly recommended as a parallel to Courses 3, 4 and 11, 12. **DR. KAHN.** T 2. 510 Hamilton.

§25. Horace: Satires and Epistles. 3 points. [6]

Prerequisite: Courses 11 and 12 or permission of the department. **PROFESSOR DAY.** T Th 9:10–10:25. 39 Milbank.

§26. Roman Drama. 3 points. [6]

Prerequisite: Courses 11 and 12 or permission of the department. —————. T Th 9:10–10:25. 39 Milbank.

Courses 25, 26 are rotated in a three-year cycle with Courses 21 (Juvenal; Martial; Pliny), 22 (Cicero; Ovid); 27 (Lucretius; Catullus), 28 (Tacitus).

★29–30. Prose Composition: Advanced Course. 2 points.

Prerequisite: Course ★19–20. May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. **DR. BENARIO.** M 3. 507 Hamilton.

GREEK AND LATIN

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. Their description may be found in the Announcement of the Graduate Faculties. The following courses are recommended for students who have the written permission of the department:

- ★**Classical Literature 237, 238.** *The Classical Tradition in European and American Literature.* 6 points. PROFESSOR HIGHET. T Th 10.
- ★**Classical Literature 255A.** *Classical Epic and its Influences.* 3 points. PROFESSOR HADAS. M W 10.
- ★**Classical Literature 256.** *The Classical Drama and its Influences.* 3 points. PROFESSOR HADAS. M W 10.
- ★**Greek 101, 102.** *Greek Literature, Part 1: Poetry.* 6 points. PROFESSOR PORTER. M W 5:10-6.
- ★**Greek 111, 112.** *Homer's Iliad.* 6 points. PROFESSOR PORTER. W 6:30-8:30 p.m.
- ★**Latin 101, 102 (formerly ★201, 202).** *Literature of the Roman Republic.* 6 points. PROFESSOR HIGHET. M 4:10-6.
- ★**Latin 111, 112.** *Vergil.* 6 points. PROFESSOR HIGHET. W 6:30-8:30 p.m.

HISTORY

PROFESSORS: RENÉ ALBRECHT-CARRIÉ (Executive Officer), BASIL RAUCH

ASSOCIATE PROFESSORS: SIDNEY A. BURRELL, VIRGINIA D. HARRINGTON,

CHILTON WILLIAMSON

ASSISTANT PROFESSOR: LOUISE ELLIOTT DALBY

INSTRUCTOR: ROBERT L. BENSON

LECTURERS: ANNETTE KAR BAXTER, RUTH A. ROOSA

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSISTANT PROFESSORS: RICHARD M. MORSE, MORTON SMITH

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

- (a) Three fundamental courses: European history (1-2), American history (9-10, 33-34, 45-46, or 55-56), and either ancient or medieval history;
- (b) Two courses in the category of specialized courses to be chosen with a view to concentration in the broad fields of either American or European history;
- (c) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is also required to write a senior essay which will be appraised by the department.

In view of the close relation of the disciplines that go under the name of social sciences, a student majoring in history is also required to elect 12 points distributed in two social sciences other than history.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, etc.

Special program in history: Under this program the student will take four fundamental courses, both seminars in her field of concentration, and will be given a program of readings to be done during the summers of the sophomore and junior years. The student will be examined on these readings during the spring of her senior year. A committee of the department will decide on the successful completion of this program, recognition of which will be in the form of a special certificate. Students interested in the special program should consult the Executive Officer of the department.

Combined majors: With the work in history students may combine work in

other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art; modern history and international relations, economics or sociology; English history and literature or government; American history and economics; the history of thought and culture. See also Other Interdepartmental Offerings, page 32.

INTRODUCTORY COURSES

1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. [16]

Winter Session: Foundations of modern Europe; from the fifteenth century to the eighteenth; the British, American, and French Revolutions; Napoleon; the Congress of Vienna. Spring Session: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS CARRIÉ, WILLIAMSON, BURRELL, DALBY and DR. BENSON.

Section I	M W F	9.	129 Milbank.
Section II	M W F	10.	129 Milbank.
Section III	M W F	12.	129 Milbank.
Section IV	M W F	1.	129 Milbank.
Section V	M W F	2.	129 Milbank.
Section VI	T Th	9:10-10:25.	129 Milbank.
Section VII	T Th	2:10-3:25.	129 Milbank.

★5-6. Ancient History: A Survey of the Ancient Mediterranean World. 6 points.

Winter Session: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Session: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known world," the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR SMITH. M W F 9. 417 Business.

7, 8. Europe in the Middle Ages. 6 points. [10]

A survey of the history of Western Europe from late antiquity to the fourteenth century with attention to political institutions and thought, ecclesiastical history, intellectual movements, and the main social and economic developments. DR. BENSON. M W F 3. 203 Milbank.

9-10. History of the American Nation from Colonies to World Power. [2] 6 points.

This course aims to broaden and deepen the student's understanding of the American past in terms of its economic, political, cultural and intellectual aspects. Not open to students who have had a full-year course in American history in the junior or senior year of high school. PROFESSOR HARRINGTON. M W F 10. 212 Milbank.

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SPECIALIZED COURSES

- 11, 12. England from the Norman Conquest to the Twentieth Century.** [6]
6 points.

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginning of collectivism. PROFESSOR BURRELL. T Th 9:10–10:25. 315 Milbank.

- [**15, 16. The Renaissance and the Reformation.** 6 points. DR. BENSON.
Not given in 1958-59.]

- ★19, 20. The History and Culture of Latin America.** 6 points.

Winter Session: Indian and Iberian backgrounds; conquest of America; cultural clash and fusion; topical analysis of colonial institutions, society, arts; eighteenth-century reforms; war for independence. Spring Session: Historical survey of nations and regions (1825–1950), followed by thematic treatment of modern Latin America's peoples and customs, institutions, economy, religion, cultural expression, international relations. PROFESSOR MORSE. T Th 11–12:15. 317 Hamilton.

- 25, 26. Europe since 1870.** 6 points. [2]

Internal evolution of the principal powers; Bismarck's Germany; imperialism and the rival alliances. First World War: the peace settlements; the League; the apparent liquidation of the war; new political systems; collapse of the nineteen-thirties. Second World War and its legacy. Prerequisite: Course 1–2 PROFESSOR DALBY. M W F 10. 37 Milbank.

- [**27, 28. The French Revolution and Napoleon.** 6 points.

Not given in 1958–59.]

- 29, 30. The Modern Mediterranean World.** 6 points. [9]

Historic role of the Mediterranean. The Near Eastern question in the nineteenth century: the Powers and the Ottoman Empire; emancipation of the Balkan peoples. The emergence of united Italy. The First World War and after: the new Turkey; Arab nationalism, and receding empires. Prerequisite: Course 1–2, or an equivalent course. PROFESSOR CARRIÉ. T Th 2:10–3:25. 101 Barnard.

- [**33–34. Studies in American Colonial History.** 6 points. PROFESSOR HARRINGTON.

Not given in 1958-59.]

- 35, 36. History of the British Empire.** 6 points. [3]

An historical survey from Tudor times to the Second World War, with special attention to those phases of the subject less likely to be familiar to American students. Preceding or parallel: Course 1–2. PROFESSOR WILLIAMSON. M W F 11. 215 Milbank.

HISTORY

37, 38. History of Russia. 6 points.

[7]

Political, economic and social developments in Russia from the earliest times. Winter Session: The Kievan and Muscovite background; main currents in Imperial Russia to 1905. Spring Session: The end of the Empire; revolutionary origins and subsequent development of the Soviet Union. Prerequisite: Course 1-2 or an equivalent course. Mrs. Roosa. T Th 10:35-11:50. 203 Milbank.

[41-42. History of Science. 6 points. PROFESSOR CARRIÉ.

Not given in 1958-59.]

43. The History of Education in the United States. 3 points.

[5]

Development of education in the United States against the background of political, philosophical, religious, and scientific thought. Emphasis upon the social and intellectual forces which have shaped education. PROFESSOR HARRINGTON. M W F 2. 309 Milbank.

45-46. Studies in the Middle Period of American History. 6 points. [5]

Economic, social, political and cultural aspects of American history from the establishment of the Constitution in 1789 to the collapse of Reconstruction in 1876. Prerequisite: Course 9-10, or an equivalent course. PROFESSOR WILLIAMSON. M W F 2. 215 Milbank.

53, 54. History of United States Foreign Relations. 6 points.

[7]

American diplomacy from the Secret Committee on Correspondence to recent times, with attention to domestic and foreign influences on the policies and actions of American leaders. Preceding or parallel: Course 9-10, or an equivalent course. PROFESSOR RAUCH. T Th 10:35-11:50. 319 Milbank.

55-56. Studies in Modern American History. 6 points.

[13]

Economic, social, political, and cultural topics from 1876 to today will be studied by means of lectures, individual reading programs, written reports, and group discussions. Prerequisite: Course 9-10, or an equivalent course. PROFESSOR RAUCH. T Th 3-4:30. 129 Milbank.

58. History of Religion in America (same as Religion 58). 3 points. [5]

History of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to developments of the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 2. 309 Milbank.

SEMINARS

81, 82. Seminar in Historiography. 8 points.

[0]

Readings and research into the ideas and methods of historical study from the

BARNARD COLLEGE

beginnings of western civilization to the twentieth century. Introduction to historical criticism. Open to seniors on written permission of the instructor.

Section I PROFESSOR BURRELL. W 4-6. 207 Milbank.

Section II PROFESSOR HARRINGTON. W 4-6. 319 Milbank.

History majors are also eligible to fulfill seminar requirements by enrolling in the senior seminar in British Civilization on written permission of the Chairman of the Committee on British Civilization.

83, 84. Seminar in American Civilization. 8 points. [0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion. Open to seniors on written permission of the instructor. PROFESSOR RAUCH. W 4-6. 209 Milbank.

85, 86. Seminar in European Civilization. 8 points. [0]

Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion. Open to seniors on written permission of the instructor. PROFESSOR CARRIÉ.

T 4-6. 207 Milbank.

[**87, 88. Seminar in the Literature of American History.** 8 points. PROFESSOR HARRINGTON.]

Not given in 1958-59.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Graduate Faculties.

HYGIENE

MARJORIE J. NELSON, M.D., College Physician

1. Hygiene. 2 points. [13]

A study of the principles of physical and mental health.

This course is required of all freshmen and of all sophomores who have not passed the exemption test. DR. NELSON. Section I T Th 10. 301 Barnard. Section II M W 3. 301 Barnard. Section III W F 2. 301 Barnard.

ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA BOVÉ (Executive Officer)

ASSISTANT PROFESSOR: ELIZABETH CZONICZER

ASSISTANT IN PHONETICS: MARCELLA OTTOLENGHI

A major in Italian is expected to attain (a) sufficient knowledge of the language, to enable her to read, write and speak it, (b) a fundamental acquaintance with Italian literature, (c) a fair ability in understanding and interpreting literary texts in Italian.

The major examination consists of four hours of written work and an oral examination.

LANGUAGE COURSES

1–2. Introductory Full-Year Course. 6 (for seniors) or 8 points. [17]

Grammar, easy reading, conversation. Work in the phonetics studio is part of the course. This course may not be taken parallel to Spanish 1–2. Seniors with adequate linguistic background may take this course for 6 points. PROFESSORS BOVÉ and CZONICZER. Section 1 M T W Th F 9. 319 Milbank. Section II M W F 10, T Th 9. 319 Milbank.

3–4. Intermediate Course. 6 points. [3]

An introduction to Italian literature, a review of grammar, intensive and extensive reading, translations, compositions and oral reports. Prerequisite: Course 1–2, or the passing of an examination. PROFESSOR CZONICZER. M W F 11. 209 Milbank.

[5, 6. Italian Conversation. 2 points. PROFESSOR CZONICZER.

Not given in 1958–59.]

[7, 8. Composition and Advanced Translation. 2 points. PROFESSOR BOVÉ.

Not given in 1958–59.]

LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C— or higher is obtained.

[§9. Studies in Italian Prose. 3 or 4 points. PROFESSOR CZONICZER.

Not given in 1958–59.]

[§10. Studies in Italian Poetry. 3 or 4 points. PROFESSOR BOVÉ.

Not given in 1958–59.]

§11–§12. Dante, Petrarca, Boccaccio. 6 or 8 points. [7]

The Divine Comedy, the Canzoniere, the Decameron. In addition passages of

BARNARD COLLEGE

some of the other works of the three authors will be read and commented upon.
Given in Italian. PROFESSOR BOVÉ. T Th 10:35–11:50. 13 Milbank.

§13–§14. Italian Renaissance. 6 or 8 points. [3]

Study of the main authors from Petrarca to Galileo Galilei. Given in Italian.
PROFESSOR BOVÉ. M 11–1, W 11. 406 Barnard.

[§15–§16. Italian Literature from 1600 to 1850.] 6 or 8 points. PROFESSOR BOVÉ.

Not given in 1958–59.]

§17–§18. Italian Literature of the Last Century. 6 or 8 points. [6]

Lectures and student reports in Italian. PROFESSOR CZONICZER. T Th 9:10–10:25. 209 Milbank.

[§19. The Italian Novel.] 2 or 3 points. PROFESSOR CZONICZER.

Not given in 1958–59.]

[§20. Italian Drama.] 2 or 3 points. PROFESSOR BOVÉ.

Not given in 1958–59.]

21. Dante, Petrarca and their World. 3 points. [17]

Religious and ethical implications of Dante's and Petrarca's poetry. Given in English for students with no knowledge of Italian. PROFESSOR BOVÉ. T Th 3:10–4:25. 311 Milbank.

22. Italian Renaissance and its Classical Background. 3 points. [17]

Readings of Italian poets (Marullo, Pontano, Poliziano, Lorenzo, Ariosto, Tasso) and of Italian writers (Machiavelli, Guicciardini, Castiglione, Bembo) will be paralleled by readings of Vergil, Ovid, Horace, Livy, Tacitus, Homer, Herodotus, Thucydides, Theocritus, Plato and Plutarch. Given in English for students with no knowledge of Italian. PROFESSOR BOVÉ. T Th 3:10–4:25. 311 Milbank.

★193–194. Colloquium in Italian Literature. 6 points.

Conducted in English. PROFESSOR BOVÉ. T 4:30–6:10. 606 Casa Italiana.

LATIN (See GREEK AND LATIN)

MATHEMATICS

PROFESSOR: EDGAR R. LORCH (Executive Officer)

ASSOCIATE PROFESSOR: JOANNE ELLIOTT

LECTURERS: ERLING W. CHAMBERLAIN, PHYLLIS RUBIN

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: BARNARD O. KOOPMAN

ASSOCIATE PROFESSOR: ELLIS R. KOLCHIN

ASSISTANT PROFESSOR: ALLAN BIRNBAUM

INSTRUCTOR: CARL W. KOHLS

A major in mathematics. A student majoring in mathematics will be required to take a minimum of 28 points, including the calculus sequence or the equivalent, and, in addition, courses selected with the approval of the department. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Faculty of Pure Science.

Other fields: Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

The major examination will be in two parts: (1) The Graduate Record Examination; (2) An oral examination administered by the department.

1 (or R1). Trigonometry. 3 points.

Trigonometric functions, logarithms, solutions of triangles, identities, trigonometric equations, graphs of the trigonometric functions, complex numbers, De Moivre's theorem. Students who have had a standard course in trigonometry should take Course 30. MISS RUBIN and MR. CHAMBERLAIN.

Winter Session (1): M W F 9. 309 Milbank. [1]

Spring Session (R1): M W F 10. 321 Milbank. [2].

R6. Algebra and the Theory of Equations. 3 points. [6]

The complex number system, theory of equations, determinants, mathematical induction, permutations and combinations, probability. Recommended for those students in the biological and social sciences who can devote only a limited amount of time to mathematical studies. Prerequisite: Algebra through quadratic equations. MR. CHAMBERLAIN. T Th 9:10-10:25. 309 Milbank.

7-8. Mathematical Analysis. 6 points. [5]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Topics from

BARNARD COLLEGE

algebra, trigonometry, analytic geometry, differential and integral calculus. Not recommended for students of the physical sciences and not open to students who have had trigonometry or who are planning to major in mathematics.

—. M W F 2. 203 Milbank.

30 (or R30). Calculus I. 3 points.

[12]

Topics covered will include: coordinates in the plane, loci and their equations, straight lines, conic sections, translations and rotations; limits and derivatives; differentiation of algebraic functions with applications to tangents, maxima and minima, curve tracing, and rectilinear motion. Prerequisite: Course 1 or its equivalent. PROFESSORS LORCH and ELLIOTT, MISS RUBIN and MR. CHAMBERLAIN.

Winter Session (R30): Section I T Th 9:10–10:25. 4 Milbank.
Section II M W F 1. 202 Milbank.

Spring Session (30): Section I M W F 9. 309 Milbank.
Section II T Th 9:10–10:25. 309 Milbank.

31 (or R31). Calculus II. 3 points.

[12]

Topics covered will include: polar coordinates; differentiation of logarithmic and trigonometric functions and their inverses; differentials; indeterminate forms; introduction to integration and application of the integral to area, volume, and arc length. Prerequisite: Course 30. PROFESSOR LORCH, MR. CHAMBERLAIN, and —.

Winter Session (31): T Th 10:35–11:50. 101 Barnard.

Spring Session (R31): Section I T Th 9:10–10:25. 215 Milbank.
Section II M W F 1. 4 Milbank.

32 (or R32). Calculus III. 3 points.

Topics covered will include: further applications of the definite integral; infinite series; solid analytic geometry. Prerequisite: Course 31. PROFESSOR ELLIOTT and Miss RUBIN.

Winter Session (R32): M W F 2. 101 Barnard. [5]

Spring Session (32): T Th 10:35–11:50. 101 Barnard. [7]

33 (or R33). Calculus IV. 3 points.

Topics covered will include: vectors; partial derivatives; multiple integrals. Prerequisite: Course 32. PROFESSOR ELLIOTT and Miss RUBIN.

Winter Session (33): M W F 10. 209 Milbank. [2]

Spring Session (R33): M W F 1. 311 Milbank. [4]

34. Calculus V. 3 points.

[5]

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials

MATHEMATICS

and Bessel functions. Prerequisite: Course 33. PROFESSOR ELLIOTT. M W F 2. 129 Milbank.

★Mathematical Statistics 33–34. Introduction to Probability and Mathematical Statistics. 6 points.

This course is intended primarily for students interested in the biological and social sciences. After a brief introduction to some aspects of set theory, mathematical logic, theory of games, and mathematical models in the social sciences, the course will be concerned with the mathematical theory of probability and statistical inference and its application in the various sciences. Prerequisite: Mathematics 31 or its equivalent. PROFESSOR BIRNBAUM. T Th 1:30–2:35. 412 Pupin.

[43. Theory of Space and Time.] 3 points. PROFESSOR LORCH.

Not given in 1958-59.]

[48. Theory of Numbers.] 3 points. PROFESSOR ELLIOTT.

Not given in 1958-59.]

[57. Higher Algebra.] 3 points.

Not given in 1958-59.]

★101. Introduction to Number Theory. 3 points.

Congruences, structure of residue class groups, quadratic reciprocity, Dirichlet's prime number theorem, and quadratic number fields. Prerequisite: Course 32. DR. KOHLS. T Th 11–12:15. 607 Hamilton.

★102. Introduction to Algebra. 3 points.

Determinants and matrices, linear transformations; quadratic forms; polynomials. Prerequisite: Course 32. DR. KOHLS. T Th 11–12:15. 202 Hamilton.

★104. Differential Equations. 3 points.

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Course 33. PROFESSOR ELLIOTT. M W F 10. 303 Hamilton.

★105. Elements of the Theory of Functions of Complex Variables. 3 points.

For those who need a working knowledge of the theory of functions of complex variables as an instrument for the physical sciences and engineering. The subjects treated are: geometry and algebra of the complex plane; derivatives and the Cauchy-Riemann equations; conformal mapping; elementary functions; the Cauchy integral theorem and formula; contour integration and residues; singularities and power series expansions; Riemann surfaces. Prerequisite: Course 33. PROFESSOR ELLIOTT. M W F 10. 517 Hamilton.

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★107. Probability. 3 points.

This is the basic course in probability, preparing the student for its applications in astronomy, physics, chemistry, the biological sciences as well as in the theory of observations, statistics and operations research. The subjects covered include the logical formulation of the laws of probability; random variables, their distributions and statistical properties; the law of large numbers; geometrical probabilities; the central and other limit theorems; stochastic processes. Prerequisite: calculus through partial derivatives and multiple integrals. PROFESSOR KOOPMAN. M W 1:20–2:35. 203 Hamilton.

★108. Probability and Applications. 3 points.

This course continues the theoretical developments of the preceding course. It also applies the subject to such fields as statistics, information and communications theory, stochastic properties of matter, and similar subjects of modern physics. Prerequisite: Course ★107. PROFESSOR KOOPMAN. M W 1:20–2:35. 203 Hamilton.

★111 Fundamental Concepts of Mathematics. 3 points.

Topics include: sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal and ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Course 33. PROFESSOR KOLCHIN. T Th 1:20–2:35. 202 Hamilton.

★112. General Topology. 3 points.

Topics covered will include: topological spaces; product and quotient spaces; compact spaces, Tychonoff's Theorem; metrization, Urysohn's Theorem; uniform spaces, completeness, function spaces. Prerequisite: Course ★111. PROFESSOR KOLCHIN. T Th 1:20–2:35. 202 Hamilton.

★163–164. Theory of Functions. 6 points.

Topics covered will include: functions of a real variable—continuity, differentiation, Riemann integration, uniform convergence, bounded variation, partial differentiation; and functions of a complex variable—Cauchy integral theory and its consequences, Riemann surfaces, periodic functions. Prerequisites: Courses 33 and ★111. PROFESSOR LORCH. T Th 4:10–5:25. 202 Hamilton.

MUSIC

PROFESSOR: OTTO LUENING

ASSISTANT PROFESSOR: HUBERT DORIS (Chairman for Barnard)

LECTURER: ALICE LEVINE MITCHELL

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: WILLIAM J. MITCHELL, DOUGLAS STUART MOORE (Executive Officer)

ASSISTANT PROFESSORS: EDWARD A. LIPPMAN, HOWARD SHANET

INSTRUCTORS: JOEL NEWMAN, F. MARK SIEBERT

LECTURER: RUDOLPH THOMAS

ASSISTANT: GENEVIEVE CHINN

TEACHING STAFF IN APPLIED MUSIC:

EVERETT ANDERSON. Voice

ALTA HILL. Piano

FRANK SHERIDAN. Piano

F. MARK SIEBERT. University Chorus

HUNTER WILEY. University Band

SEARLE WRIGHT. Organ; Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 3 and R31 in the freshman year followed by Course R32 in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program. A student whose preparation has been inadequate will be advised to take Course 1-2 in the freshman year and Course 31-32 in the sophomore year.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Courses 3 or 1-2) in literature, history, and in theory. Ordinarily Courses ★23-24, 31-32, ★33-34, ★35-36, and ★73-74 are required. Applied music courses (a maximum of 12 points) may be counted towards the degree but are not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology must know at least two foreign languages, including German and French. Courses in fine arts, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

At the end of the junior year students majoring in music will be expected to file with the Department certificates stating that they have passed an examina-

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tion in elementary piano and that they have participated for one year in some ensemble activity such as chorus or orchestra.

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes.

Library: Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

Collegium Musicum. The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces of vocal and instrumental music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in performances. Students in other departments are also welcome. Emphasis is placed upon a variety of compositions and not on finished performance. The literature to be used embraces music from medieval times to the present day.

LITERATURE AND HISTORY

1-2. An Introduction to Music. 4 points.

[3]

A study of the elements of musical structure designed to form intelligent listening habits. The spring session is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities. PROFESSOR DORIS. M W F 11. 603 Journalism.

3. A Survey of Musical Styles. 3 points.

[3]

Designed as a substitute for Course 1-2 and may be elected by students who have had some previous musical training. The ability to read music is required. MRS. MITCHELL. M W F 11. 609 Journalism.

★8. Contemporary Music. 2 points.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course ★R15 will satisfy the non-literature requirement in the humanities. PROFESSOR MOORE. T Th 11. 603 Journalism.

★9. The Heritage of Music. 2 points.

An inquiry into the various forms of musical expression, designed for the non-specializing student as a continuation of Course 1-2. Selected compositions from

MUSIC

the Renaissance to the present day. Prerequisite: Course 1-2 or the equivalent.
PROFESSOR MOORE. T Th 11. 603 Journalism.

14. Chamber Music. 3 points. [9]

A survey of the significant literature of chamber music. Prerequisite: Course 1-2 or the equivalent. **PROFESSOR LUENING.** T Th 2:35-4:00. 603 Journalism.

★R15. The Symphony. 3 points.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course ★8 will satisfy the non-literature requirement in the humanities. **PROFESSOR MITCHELL.** M W F 1. 603 Journalism.

R16. The Opera. 3 points. [4]

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. **PROFESSOR LUENING.** M 1, W 1-3. 603 Journalism.

★23-24. History of Music. 6 points.

A survey of the history of music from the beginning of the Christian era to the present. One hour of class time each week will consist of musical illustration. Prerequisite: Course 31-32 or the equivalent. **PROFESSOR LIPPMAN.** T Th 9-11. 603 Journalism.

79-80. Historical and Analytical Studies in the Literature of Music. [0]
4 points.

Required seminar for senior majors to supplement and coordinate previous studies. **PROFESSOR DORIS and MISS CHINN.** Th 3-5. 609 Journalism.

★107. Bach. 2 points.

Study by analysis, discussion and performance of the chief works of Johann Sebastian Bach. Prerequisite: Course 31-32 or the equivalent. **PROFESSOR MOORE.** M W 3. 609 Journalism.

★141-142. Philosophy and Aesthetics of Music. 4 points.

An examination of outstanding conceptions of the nature of music; the role of music in society, its relation to the other arts, and its status as an intellectual activity. **PROFESSOR LIPPMAN.** F 11-1. 703 Journalism.

THEORY

31-32. Harmony. 6 points. [4]

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano. Prerequisite: Written permission of the instructor. **MR. NEWMAN and MRS. MITCHELL.** M W F 1. 521 Milbank Penthouse.

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R31—R32. Harmony. 6 points.

[2]

The subject matter of 31—32, starting in the spring session. PROFESSOR DORIS. M W F 10. 521 Milbank Penthouse.

R32a. Harmony at the Keyboard. 1 point.

[7]

A laboratory course featuring the subject matter of R32 as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course 31. Preceding or parallel: Course 32. MISS CHINN. Th 10. 521 Milbank Penthouse.

★R33. Advanced Harmony. 3 points.

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course 31—32 or the equivalent. Course 32 must have been passed with a grade of B— or better. Parallel, advised but not required: Course ★35—36. PROFESSOR MITCHELL. M W F 10. 608 Journalism.

R33a. Harmony at the Keyboard. 1 point.

[7]

A laboratory course featuring the subject matter of ★R33 as applied to the keyboard. Prerequisite: Course 31—32. Preceding or parallel: Course ★R33. MRS. MITCHELL. Th 10. 521 Milbank Penthouse.

★R34. Analysis. 3 points.

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course ★R33. Recommended, but not required: Course ★35—36. PROFESSOR MITCHELL. M W F 10. 608 Journalism.

★35—36. Counterpoint. 6 points.

A study of the five species in two, three, and four parts, strict style. During the spring session students analyze and compose polyphonic pieces in various styles. Prerequisite: Course 31—32 or the equivalent. MR. NEWMAN and MR. SIEBERT. M W F 12. 521 Milbank Penthouse.

39—40. Composition. 4 points.

[0]

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course ★R33 or written permission of the instructor. This course may be repeated for credit. PROFESSOR LUENING. M 3—5. 604 Journalism.

★73—74. Orchestration, Conducting, and Score Reading. 6 points.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course 31—32 or the equivalent and written permission of the instructor. Section I MR. THOMAS. M 2—4, W 2. 517 Milbank Penthouse. Section II PROFESSOR SHANET. W 2, F 2—4. 609 Journalism.

MUSIC

★131-132. Advanced Composition. 4 points.

Free compositions in the larger forms, including fugue, for piano, organ, instrumental ensembles, and voices. Prerequisite: Course 39-40 or the equivalent and written permission of the instructor. PROFESSOR BEESON. F 10-12. 703 Journalism.

APPLIED MUSIC

NOTE: Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count towards the degree. A maximum of 12 points may be so counted. No student may register for a course in vocal, organ, or piano instruction without consultation with the department as early in the registration period as possible. 601 Journalism. Hours to be arranged with the instructors.

e81, e82. Vocal Instruction. 2 points. (See Note above.)

Private lessons in voice production and in interpretation. Coaching and repertoire. Special fee, \$100 each session; no refunds. MR. ANDERSON.

83, 84. Organ Instruction. 2 points. (See Note above.)

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers. Consult the Columbia Music Department about registration and fees. MR. WRIGHT.

91, 92. Piano Instruction. 2 points. (See Note above.)

Private lessons in technique, sight reading and repertoire. Special fee, \$100 each session; no refunds. MISS HILL.

93, 94. Piano Instruction for Advanced Students. 2 points. (See Note above.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertoire. Special fee, \$160 each session; no refunds. MR. SHERIDAN.

PERFORMANCE ACTIVITIES

Columbia University Orchestra.

In addition to regular rehearsals for public concerts, there are reading and workshop sessions in which compositions will be studied with no eye toward public performance.

Membership is open to all members of the University community, including students, faculty, staff and alumni, who can meet the musical qualifications. A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers. PROFESSOR SHANET. Rehearsals: M W 5:30-7:30 p.m. McMillin Theatre.

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Columbia University Chorus.

The purpose of the group is the study and presentation of serious choral works from all periods of musical literature. Two concerts are given in McMillin Theatre each year, as well as performances with various organizations. Informal reading sessions are also held. Membership is open to all members of the University family: graduate and undergraduate students, faculty, staff, and alumni. **MR. SIEBERT.** M Th 7:30—9:30 p.m. 408 Barnard.

The time and place of auditions will be announced in 601 Journalism during the week before registration.

Chapel Choir: The Chapel Choir sings regularly on Sunday mornings at the 11 o'clock service and on Monday, Wednesday and Friday at noonday services. The Choir also gives several special Sunday evening musical services. Other functions include choral performances at University Convocations, appearances at the Cathedral of St. John the Divine, etc. Applicants must have ability to sight-read music. All men and women students of the University are eligible. Regular members of the Choir will receive \$150 for the academic year. For further information consult Mr. Wright, Organist and Choirmaster of St. Paul's Chapel.

Auditions will be held in the Chapel Crypt September 19, 22, 23, from 10—12 and 2—5. Rehearsals: Monday, Wednesday and Friday, 5—6:15, Sunday, 9:45 a.m. in the Chapel Crypt.

University Band.

The Concert Band begins rehearsals November 1 with membership open to all men and women in Columbia University. Two concerts are given in McMillin Theatre and five weekly afternoon concerts are presented on the campus in the spring.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period. **MR. WILEY.** T Th 4—6. 113 Low Library.

PHILOSOPHY

ASSOCIATE PROFESSOR: JOSEPH GERARD BRENNAN (Executive Officer)

ASSISTANT PROFESSORS: JEAN A. POTTER, H. STANDISH THAYER

LECTURERS: JUDITH JARVIS, MARY STEWART

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, the nature of reality, and the meaning of moral, aesthetic, and religious values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalents: 1; 5; 22; 61–62, and in the senior year, the seminar, 65–66. Passing of a six-hour written major examination at the end of the senior year is required.

1 (or R1). Introduction to Philosophy. 3 points.

A survey of the various divisions of philosophic inquiry, including discussion of representative problems of knowledge, nature, and value.

Section I	M W F 10.	215 Milbank.	[2]
Section II	M W F 11.	309 Milbank.	[3]
Section III	M W F 2.	202 Milbank.	[5]
Section IV	T Th 9:10–10:35.	37 Milbank.	[6]

4. Metaphysics. 3 points. [7]

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments. Prerequisite: Course 1 or the equivalent. PROFESSOR POTTER. T Th 10:35–11:50. 29 Milbank.

5. Logic. 3 points. [4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by a brief introduction to symbolic logic. PROFESSOR BRENNAN. M W F 1. 37 Milbank.

6. Analytic Philosophy. 3 points. [5]

Problems in theory of knowledge with readings from contemporary British and American sources. Special attention is paid to the writings of G. E. Moore. Prerequisite: Course 1 or written permission of the instructor. MISS JARVIS. M W F 2. 29 Milbank.

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[8. **Philosophy of Science.** 3 points. **PROFESSOR THAYER**

Not given in 1958-59.]

9. The Metaphysics of Theism (same as **Religion 13**). [7]

A systematic analysis of concepts relating to the existence and nature of God. Prerequisite: Course 1 or the equivalent. **PROFESSOR POTTER.** T Th 10:35-11:50. 29 Milbank.

22. Ethics. 3 points. [4]

Man, values, and evaluation. Discussion of various conceptions of the good life, including Aristotelian, Epicurean, Stoic, Kantian, Naturalistic and Positivistic ethics. A study of central issues involved in evaluation; natural and conventional standards, evil, power and values, freedom and determinism. Prerequisite: Course 1. **PROFESSOR THAYER.** M W F 1. 202 Milbank.

41. Philosophy of Art. 3 points. [5]

Study and discussion of a number of ancient and modern interpretations of the nature of art. An attempt will be made to formulate and apply the concepts of truth, beauty, and meaning to the objects of aesthetic experience. Open to juniors and seniors, and to qualified sophomores on written permission of the department. **PROFESSOR THAYER.** M W F 2. 4 Milbank.

43. Philosophical Implications of the Modern Novel. 3 points. [3]

The following themes will be developed: the relation of man to nature and to art; the role played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Kafka, Gide, Malraux, Greene, and other important European novelists of the twentieth century will be discussed. Not open to freshmen. **PROFESSOR BRENNAN.** M W F 11. 315 Milbank.

61-62. History of Philosophy. 6 points. [2]

Winter Session: Greek philosophy from Thales to Plotinus. Spring Session: Medieval and modern philosophy from Augustine to Hegel. Open to juniors and seniors, and to qualified sophomores on written permission of the department. **PROFESSOR THAYER.** M W F 10. 335 Milbank.

63, 64. Readings in Philosophy. 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. **MISS JARVIS,** or the instructor in the course to which the extra hours of reading are attached. Hour to be arranged for individual or group conferences.

65-66. Senior Seminar. 6 points. [0]

Required of all majors in the senior year. **PROFESSOR POTTER.** T 3-5 and conference hours to be arranged. 29 Milbank.

PHILOSOPHY

- 76. Twentieth Century Philosophy.** 3 points. [10]

A study of philosophies of evolution, process, existence, dialectical materialism, naturalism, and logical empiricism. Readings will include selections from writings of Bergson, Whitehead, Heidegger, Ayer, representative Marxist philosophers, and critical naturalists. Prerequisite: Course 1 or 61-62. PROFESSOR BRENNAN. M W 3 and conference hour. 29 Milbank.

- 84. The Philosophy of Education.** 3 points. [5]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman and Dewey as well as contemporary critics. PROFESSOR BRENNAN. M W F 2. 4 Milbank.

PHYSICAL EDUCATION

ASSOCIATE PROFESSORS: LELIA M. FINAN, MARGARET HOLLAND (Executive Officer), MARION STRENG

ASSISTANT PROFESSOR: FERN YATES

ASSOCIATE: JEANNETTE SCHLOTTMANN

INSTRUCTORS: EDITH D. GENTRY, PHYLLIS MINTZ

The program is organized and administered by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity and recreation.

The Faculty requires physical education during the freshman, sophomore and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theatre, students who major in English and specialize in Drama are urged to take courses in this area.

Medical examinations and posture analysis: Three complete medical examinations by the College Physician are required of all students during the four years. Two complete posture examinations are required by the Department of Physical Education by the end of the sophomore year. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

Freshman requirement: Three hours per week on different days. During the first semester two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is elective.

Section I MW 2. Section III TTb 9

Section V. T Th 11

Sophomore and junior requirement: Two hours per week on different days

Program of activities: Two seasons each semester. Fall: 10 weeks; Spring: 10 weeks.

The program is posted on the Physical Education bulletin board two weeks prior to the beginning of each session.

Fall and Spring: archery; body mechanics; correctives; golf; modern dance; riding (special fee—see Handbook); softball; swimming; tennis; volley ball; water ballet.

Winter each session: archery (indoor); badminton; co-ed badminton; basketball; basketball officiating; bowling (special fee see Handbook); curling;

PHYSICAL EDUCATION

exercises; correctives—relaxation; fencing; folk-square dance; co-ed folk-square dance; fundamentals; golf (indoor); Greek Games, athletics and/or dance; modern dance; Red Cross life-saving; riding; swimming and diving; volley ball; water ballet and water safety.

In all of these activities students are advised to register according to their skill level i.e., beginning, intermediate or advanced.

Prescribed costume: Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$15. For further information see Handbook.

Recreational Leadership 1. 2 points. [10]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games.

Participation in extracurricular activities related to recreation and social work is especially recommended for practice and experience. PROFESSOR HOLLAND.
M W 4 and a third hour for field work. 410 Barnard.

PHYSICS

PROFESSOR: HENRY A. BOORSE (Executive Officer)

ASSISTANT PROFESSOR: GERHARD E. FISCHER

ASSISTANT: SONDRA ALPERSTEIN

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: POLYKARP KUSCH, TSUNG-DAO LEE, JACK STEINBERGER

ASSOCIATE PROFESSORS: LUCY J. HAYNER, LEON M. LEDERMAN, DANA P. MITCHELL, ROBERT VON NARDROFF

The demand for well-trained women in the field of physics continues to exceed the supply. Laboratories operated by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission, and by many industrial firms offer excellent opportunities at various levels of training. Medical physics constitutes an important and growing field of specialization, while teaching at the high school or college level offers challenging positions for those more concerned with academic work. For the student interested in scientific ideas and with good facility in mathematics, physics offers expanding opportunities for a stimulating and rewarding career.

A student majoring in physics should begin with Courses 3-4 and ★7, ★8; a student with superior preparation may, on approval of the department, substitute Course ★6 for 3-4. Courses to complete the major will be arranged as far as possible in accordance with the student's interest and preparation.

Other fields: Mathematics: an adequate background in mathematics should be acquired as early as possible. Calculus is a corequisite or prerequisite for Physics 6 and beyond. Chemistry: one year's work. A course in the biological sciences is recommended.

The major examination consists of the Graduate Record Examination in physics and an oral examination covering the general fields of study taken to satisfy the major requirement.

3-4. General Physics. 8 or 9 points.

[3]

Winter Session: Mechanics, Heat and Sound. Spring Session: Optics and Electricity. Preceding or parallel: mathematics through trigonometry. PROFESSORS BOORSE and FISCHER, and assistant. Lec. M W F 11. 233 Milbank. Lab. (2 hours) M 2-4, T 9-11 and 2-4, Th 2-4. A third hour following the two-hour laboratory period is devoted to the discussion of physical laws and their application. Election of the third hour is optional but is advised for all students, especially for those seeking to fulfill the premedical requirement.

3a-4a. General Physics. 6 or 7 points.

[3]

Lectures identical with those of Course 3-4. No laboratory work. Discussion-hour optional but advised. To follow or parallel a laboratory science. PROFESSORS BOORSE and FISCHER, and assistant. M W F 11. 233 Milbank.

PHYSICS

NOTE: The following courses require the permission of PROFESSOR BOORSE.

R5. Modern Physics. 3 points. [5]

An elementary introduction to modern atomic and nuclear physics. Intended for students who have completed general physics. Prerequisite: Course 3-4. PROFESSOR BOORSE. M W F 2. 233 Milbank.

★6. General Physics, I. Mechanics and Heat. 4 points.

Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: Mathematics 30 or equivalent; parallel, Mathematics 31 or equivalent. No credit if preceded by Course 3-4. PROFESSOR ———. Lec. M W F 9. Two consecutive hours' supervised problem work to be arranged. 301 Pupin.

★7. General Physics, II. Electricity and Magnetism. 3 points.

Electrostatics and properties of dielectrics; direct currents and elementary consideration of transients; electromagnetism and properties of ferromagnetic materials; introduction to alternating currents. Prerequisite: Course 3-4 or ★6. Parallel: Course ★9 and Mathematics 32 or equivalent. PROFESSOR KUSCH. Lec. M W F 9. 301 Pupin.

★8. General Physics, III. Light and Atomic Physics. 3 points.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course ★7. Parallel: Course ★10. PROFESSOR KUSCH. Lec. T Th 10, 301 Pupin; S 9, 329 Pupin.

★9, 10. Physical Laboratory. 3 points.

Selected quantitative experiments in mechanics, heat, electricity, optics, atomic and nuclear physics. Prerequisite: Course 3-4 or ★6. Parallel: Course ★7, 8. PROFESSOR KUSCH. Three consecutive hours to be arranged after the first lecture in Course ★7, 8.

★59. Light. 3 points.

A course in general optics. The first part is devoted to geometrical optics; later, topics in physical optics are discussed and illustrated. Prerequisite: General physics and integral calculus. PROFESSOR ———. Lec. M Th 2:30-4. 301 Pupin.

★63-64. Mechanics. 6 points.

An introduction to analytical mechanics. The course deals with statics, kinematics, and kinetics of the particle and rigid body and certain problems of elastic bodies. Prerequisite: General physics and integral calculus. PROFESSOR VON NARDROFF. M W F 9. 428 Pupin.

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★67-68. Electromagnetism and Electronics. 6 points.

Electricity and magnetism with emphasis on lumped parameter circuits. Topics discussed will include capacitance and inductance, A.C. circuits, filter networks, and transmission lines. Second part of course will deal with motion of charged particles in electric and magnetic fields and applications, the properties of vacuum tubes and their application, the design of amplifiers, oscillators, and special devices. Prerequisite: Any intermediate course in electricity and magnetism (Course ★7 is equivalent) and differential and integral calculus. PROFESSOR —————. T Th S 9. 428 Pupin.

★72. Seminar in Current Research Problems. 2 points.

Admission only with written permission of PROFESSOR KUSCH. PROFESSOR KUSCH and DR. FISCHER. W 4:10-5:30. 831 Pupin.

★81-82. Intermediate Laboratory Work. 4 or 8 points.

Experiments will be available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics and nuclear physics. An individual program of experiments will be arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, the registrant should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed. One four-hour laboratory period weekly for each 2 points to be arranged in consultation with instructor. PROFESSOR HAYNER. T 1:10-5; W 1:10-5; Th 6:30-10:30 p.m.; F 1:10-5; S 10-2. Ernest Kempton Adams Precision Laboratory, 602-636 Pupin.

GRADUATE COURSES

For further information consult the Announcement of the Graduate Faculties.

★113. Thermodynamics. 3 points.

PROFESSOR BOORSE. T F 2:10-3:30.

★115. Atomic Physics. 3 points.

PROFESSOR —————. M W F 10.

★116. Elementary Quantum Mechanics. 3 points.

PROFESSOR STEINBERGER. M W F 10.

★119-120. Mathematical Methods in Physics. 9 points.

PROFESSOR LEE. M W F 9.

★127-128. Introduction to Theoretical Physics. 4 points.

DR. FRANKLIN. W 6:10-8 p.m.

★140 or R140. Nuclear Physics. 3 points.

PROFESSOR Wu (Spring Session). PROFESSOR STEINBERGER (Winter Session). T Th 11-12:20.

PSYCHOLOGY

PROFESSOR: RICHARD PARDEE YOUTZ (Executive Officer)

ASSISTANT PROFESSORS: BARBARA S. CANNELL, WILLIAM W. CUMMING, TRACY S. KENDLER, ROSEMARY PIERREL

ADJUNCT ASSISTANT PROFESSOR: FLORENCE L. SCHUMER

INSTRUCTOR: ——————

LECTURER: MARGARET R. BENEDICT

ASSISTANTS: MILICENT ALTER, VIVIAN J. BIGOTTO, DALE KRASNOW, ALTHEA I. WAGMAN, GEORGE WERTHEIM

The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

In the work of the major, several kinds of interests are recognized. The groupings of courses given below are arranged in accordance with these interests; the student should select one of the plans A, B, C or D. In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in the graduate school.

A. General psychology major.

A student completing this major will have a good general background for activities in psychology or related fields such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. This major may be completed by fulfilling the following requirements:

Psychology: Courses 1; 7-8; 10; 11, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: One course in philosophy (3 points) or Anthropology 1-2; a laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

Suggested groupings of additional psychology courses: 15; 26; 27; 28; 37 make a good grouping for those interested in work with children. Courses 24; 26; 37 meet the interests of students in the social sciences, social work, business and practical affairs.

B. Psychology major with emphasis on clinical psychopathology.

This major was developed by the Payne Whitney Clinic and the Psychology Department. It is designed to improve the student's understanding of the work on psychiatric hospital wards. With proper preparation this leads to the position, Clinical Psychopathological Assistant, in psychiatric hospitals. In this new position the duties would include group rehabilitation activities with patients, clinical reports, and research observations. The following courses are required: Courses 1; 7-8; 10; 11; 21; 37, and in the senior year, 41-42.

Other fields: One course in philosophy (3 points) or Anthropology 1-2; a lab-

BARNARD COLLEGE

oratory course in zoology, physics, or chemistry (8 points). (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

C. Psychology major with emphasis on business and personnel.

A student interested in going directly into business or the personnel field or in taking further training in this area may complete a major by fulfilling the following requirements:

Courses 1; 7-8; 10; 11, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: Economics 1-2; 17, 18, and either 19 or 20.

D. Psychology major in preparation for graduate study.

The following major is recommended for students who plan to do graduate work in psychology or clinical psychology. (This does not apply to students planning to enter schools of social work, schools of education, or other areas related to, but not directly in, graduate departments of psychology.)

Courses 1; 7-8; 10; 11; 57; 108, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: Full-year laboratory courses in two of the following—zoology (or biology), physics, or chemistry; mathematics through Course 31, Calculus II; one course in philosophy (3 points).

The major examination: This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

1 (or R1). Introduction to Psychology. 3 points.

[11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS CANNELL, CUMMING, KENDLER, PIERREL and YOUTZ.

Winter Session (1): Section I M W F 9. 37 Milbank. Section II M W F 10. 309 Milbank. Section III M W F 11. 37 Milbank. Section IV T Th 10:35-11:50. 315 Milbank.

Spring Session (R1): Section I M W F 10. 309 Milbank. Section II M W F 11. 37 Milbank. Section III M W F 1. 37 Milbank. Section IV T Th 10:35-11:50. 315 Milbank.

7-8. Experimental Psychology. 8 points.

[11]

The chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is intro-

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duced to the literature of experimental psychology. Prerequisite: Course 1 or the equivalent. Written permission required for specific section. Each section is limited to 16 students. PROFESSORS CUMMING, KENDLER, PIERREL, DR. BENEDICT, and —————. Section I M W 1-4. 301 Milbank. Section II M W 1-4. 304 Milbank. Section III T Th 9-12. 301 Milbank. Section IV T Th 9-12. 304 Milbank. Section V T Th 2-5. 309 Milbank.

10. Introduction to Psychological Statistics. 3 points. [3]

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction. Prerequisite: Course 7. PROFESSOR CUMMING. M W F 9. 37 Milbank.

11 (or R11). Psychological Tests. 3 points. [9]

An introduction to standardized scales of mental measurement through demonstration of their nature, use, and interpretation, and practice in their administration. Twice during the semester each student must bring a child to the laboratory to be tested, at times other than those scheduled for the class. Prerequisite: Course 7-8. PROFESSOR CANNELL. T 2 and Th 2-5. 304 Milbank.

15. Educational Psychology of Learning. 3 points. [3]

An introduction to the psychology of learning designed for students interested in education. Among the topics emphasized are basic learning principles, punishment, complex learning, appraisal of learning, and learning theories. Prerequisite: Course 1 or the equivalent. Open to all except freshmen. PROFESSOR CUMMING. M W F 11. 335 Milbank.

21. Abnormal Psychology. 3 points. [8]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses. Open to juniors and seniors who have had Course 1 and one or more additional courses in psychology. PROFESSOR YOUTZ. T Th 11, and consultation in connection with readings for the third point. 202 Milbank.

24. Applied Psychology. 2 or 3 points. [6]

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, treatment of delinquents and criminals, and other problems of practical interest. Prerequisite: Course 1 or the equivalent. PROFESSOR SCHUMER. T Th 9, and conferences on a project or paper for the third point. 37 Milbank.

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26. Psychology of Personality. 3 or 4 points.

[3]

Contemporary methods and views of the description of the individual, including the factors in the development of personality and the practical aspects of personal adjustment in changing society. The contributions from experimental psychology. Prerequisite: Course 1 or the equivalent. PROFESSOR CANNELL. M W F 11, and conferences in connection with a paper for the fourth point. 4 Milbank.

27. Psychology of Childhood. 4 points.

[2]

The process of early childhood development and the factors that influence it. Particular emphasis is given to the unfolding of sensori-motor and intellectual abilities and personality formation. Observation of children in nursery school and other settings for one hour each week. Reports in connection with observations for the fourth point. Prerequisite: Course 1 or the equivalent. PROFESSOR KENDLER. M W F 10. 315 Milbank. Each student will also attend one of the following discussion sections: F 1, 2, or 3.

28. Psychology of Later Childhood and Adolescence. 3 or 4 points.

[2]

Continuation of the study of development in older children and adolescents, with increasing emphasis on the role of experience and social influences. Consideration is also given to atypical development, including the gifted, retarded, disturbed, handicapped and delinquent child or youth. Reports in connection with observation for the fourth point. Prerequisite: Course 27. PROFESSOR KENDLER. M W F 10. 315 Milbank.

32. Physiological Psychology. 4 points.

[9]

Behavior as related to the physical structures and the physiology of the organism. Functional neuroanatomy and receptor processes will constitute the two major divisions of the course. Laboratory work will include dissection of the sheep's brain and demonstrations of electrical activity in the central nervous system. Prerequisite: Course 7-8, or written permission of the instructor. PROFESSOR PIERREL. T 2 and Th 2-5. Conferences in connection with reports for the fourth point. 301 Milbank.

37. Social Psychology. 3 or 4 points.

[6]

An introduction to the study of social behavior. Among the topics considered are communication, social learning, interaction, mass behavior and leadership. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. May be counted towards the requirement in contemporary society. PROFESSOR SCHUMER. T Th 9:10-10:35, and conference hour in connection with a project or paper for the fourth point. 202 Milbank.

41-42. Field Work at Payne Whitney Clinic. 6 points.

[11]

Students taking Psychology Major B will spend two afternoons a week at the Payne Whitney Psychiatric Clinic of the New York Hospital. This work is designed to improve the student's understanding of the work on psychiatric hos-

PSYCHOLOGY

pital wards. Prerequisite: Courses 7-8, and 21 and written permission of PROFESSOR YOUTZ. M 2:45-5:45 and one other afternoon, T Th or F 2:45-5:45.

- 45. Seminar in Perception.** 3 points. [11]

Students will read, report on, and discuss literature on a wide range of topics in the area of perception. Open to junior and senior majors who have completed Course 7-8. PROFESSORS CUMMING and PIERREL. T 3-5. 301 Milbank.

- 47. Advanced Experimental Problems.** 3 points. [0]

Original investigations will be planned and undertaken in learning, reasoning, perception, and other areas of interest to the individual class members. Designed chiefly for students who intend to do graduate work in psychology or related fields, or who show interest and capability in the conduct of research. Open on written permission of the instructor to students who have had Course 7-8. PROFESSOR YOUTZ. W 3-5. 302C Milbank.

- 48. Individual Projects.** 1, 2, or 3 points. [0]

Research projects will be planned in consultation with members of the department. Open to majors who have had Course 7-8, on written permission of the member of the department who supervises the project. PROFESSORS CANNELL, CUMMING, KENDLER, PIERREL and YOUTZ. Hours to be arranged.

- 57. Systems of Psychology.** 3 points. [2]

A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Open to senior majors. PROFESSOR YOUTZ. M W 10. 203 Milbank.

- 108. Development of Psychological Concepts.** 3 points. [7]

An analysis of stages in the development of psychological concepts. The relationship between investigatory procedures and justifiable conclusions at each stage. Application to reports in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 7-8 or the equivalent. PROFESSOR YOUTZ. T Th 10:35-11:50. 207 Milbank.

RELIGION

ASSOCIATE PROFESSOR: URSULA M. NIEBUHR (Executive Officer)

INSTRUCTOR: HAROLD STAHLER.

LECTURER: ELEANOR CATE

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

CHAPLAIN OF THE UNIVERSITY: JOHN M. KRUMM

PROFESSOR: JOHN A. HUTCHISON

ASSISTANT PROFESSORS: JOSEPH LEON BLAU, JACOB TAUBES

ASSOCIATE: SUSAN TAUBES

LECTURER: FRANK F. WEKERLE

The purpose of the program is to introduce the whole field of religion and to present the documents, history and thought of the great religious tradition of the West.

A student majoring in religion will be required to take Courses 9, 10; 12; 14; 17; 83, 84 and other courses to be selected in consultation with her major adviser to complete the required 28 points. Students may select certain Columbia courses for their major requirements with departmental approval. As the study of religion involves other related fields in the humanities and social sciences, a student majoring in religion is also required to take courses amounting to 12 points in two of the following departments: anthropology, English, fine arts, government, Greek and Latin, history, philosophy, sociology. These courses should be selected in consultation with the major adviser.

If a student intends to pursue graduate work, study of languages (such as Hebrew, Greek, Latin, German) is advised. In addition to the language courses given at Barnard College, other language courses are open to Barnard students at Columbia.

The major examination consists of: Two three-hour papers; the first, general and interpretative of the whole field studied; the second, historical, designed to test the material studied in connection with the thought and history of Christianity and Judaism.

A senior essay is not obligatory; however students of high standing may be invited to submit one as a fulfillment for Course 35, 36. In that case students must submit a proposed topic for their research by April 1 of their junior year.

1. Introduction to the Study of Religion. 3 points.

[6]

Part I: The problem of "religion" as idea, as history, as relationship. Part II: The elements of religious reality; God, Man, World. Part III: The Jewish, Catholic and Protestant approach to these elements. MR. STAHLER. T Th 9:10-10:35. 212 Milbank.

RELIGION

- 9, 10. The Bible: History, Literature, and Interpretation of the Old and New Testaments.** 6 points. [7]

Winter Session: Hebrew religion. Its beginnings and nature. Ancient myths, stories, and records. Moses, Israel as the covenant people. The prophets. The exile and development of Judaism. Spring Session: The Graeco-Roman world and Jewish background of the first century. The Gospels. The letters of St. Paul. The book of Acts. The spread of Christianity. PROFESSOR NIEBUHR. T Th 10:35–11:50. 39 Milbank.

- 11. Hellenism and Judaism in the Pre-Christian Era.** 3 points. [10]

Religious and philosophical systems. Graeco-Roman Culture. Groups and developments in Judaism of second and first century B.C. The Essenes and the Dead Sea Scrolls. Essays and tutorial discussions. Prerequisite: Course 9 or the equivalent. Written permission of the instructor required. MISS CATE. M W 3. 39 Milbank.

- 12. Early Christianity in the Light of the Classical Heritage.** 3 points. [10]

The Church in the world of the Roman Empire. Transformation and incorporation of Greek and Roman religion and philosophy by the Church Fathers. Essays and tutorial discussions. Open to all except freshmen. Written permission of the instructor required. MISS CATE. M W 3. 39 Milbank.

- 13. The Metaphysics of Theism (same as Philosophy 9).** 3 points [7]

A systematic analysis of concepts relating to the existence and nature of God. Prerequisite: Philosophy 1 or the equivalent. PROFESSOR POTTER. T Th 10:35–11:50. 39 Milbank.

- 14. Medieval Religious Thought.** 3 points. [9]

A study of the relationships between faith and reason from Augustine and Boethius through Ockham, Nicholas of Cusa and Peter Ramus. Special attention will be paid to the universals controversy, the presuppositions and methodology of medieval theology and the rediscovery of language in the Renaissance. Open to all except freshmen. MR. STAHLER. T Th 2:10–3:25. 4 Milbank.

- [15. Luther and Calvin.]** 3 points.

Not given in 1958-59.]

- [16. The Puritan Tradition: Its Rise in England, its Character in America.]**

3 points.

Not given in 1958-59.]

- 17. Religious Thought from the Renaissance to 1900.** 3 points. [5]

An historical examination of the significance of representative personalities and movements from the Renaissance to 1900. Among those considered will be: Luther and the Anabaptists; Richard Hooker and Natural Law; the Cambridge Platonists; Descartes, Kant and Georg Hamann; Kierkegaard and F. D. Maurice; Feuerbach and Nietzsche. Open to all except freshmen. MR. STAHLER. M W F 2. 39 Milbank.

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18. Dialogue and Contemporary Thought. 3 points. [5]

The challenge of the dialogical approach to contemporary dogmatic and philosophical theology and to religious existentialism as reflected in the writings of Martin Buber, Ferdinand Ebner, Eugen Rosenstock-Huessy and Franz Rosenzweig. Prerequisite: Course 1, 14, 17 or 26. Open to all except freshmen.
MR. STAHLER. M W F 2. 39 Milbank.

25, 26. Religion in Contemporary Society and Culture. 6 points. [1]

Winter Session: The upsurge of religion today. Its ethical and social significance. Questions of motives and meanings. The conservative or conforming element in religion opposed to the prophetic and critical. Spring Session: Religion, its meaning and the problem of its expression. Language, myth, art and religion as symbolic forms expressing various related modes of experience. Course 25 may be counted towards the contemporary society requirement. Open to all except freshmen. Lectures and weekly class discussions. MR. STAHLER. M W F 9. 204 Milbank.

30. Religious Ideas of Man, his Nature and his World. 3 points. [6]

An analysis in the light of modern knowledge of religious views of "the world, the flesh and the devil." The world: rejected, suspected or accepted. The flesh: man's psychosomatic unity; the ascetic denial and the romantic reaction. The devil: the divided self; the problem of freedom and guilt. Readings from eastern and western classics and from great critiques of religion. Essays and tutorial discussions. Open to all except freshmen on written permission of the instructor. PROFESSOR NIEBUHR. T Th 9. 202 Milbank.

35, 36. Independent Reading and Research. 2 or 4 points. [0]

A program of study designed to give senior majors in religion an opportunity to pursue independently a subject of their choosing. Any student admitted to this program will be expected to produce a finished essay which reflects the scope and intensity of her research. Students will be required to submit a proposed topic for their research by April 1 of their junior year. Consultation periods to be arranged with departmental adviser.

58. History of Religion in America (same as History 58). 3 points. [5]

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 2. 309 Milbank.

83, 84. Major Seminar. 4 points. [0]

Discussion of selected subjects which will relate and supplement the student's reading in other courses. Written and oral reports. Required of all majors in the senior year. T 4-6. 39 Milbank.

RELATED COURSES IN OTHER DEPARTMENTS

Classical Civilization 87. The Tradition of the Humanities. -----.

Government 31, 32. The History of Political Thought. PROFESSOR STEWART.

RELIGION

The following courses at Columbia College are open to Barnard Students:

★5. Elements of Christianity. 2 points.

DR. KRUMM. W 6:10-7:50 p.m. 304 Hamilton.

★14. An Introduction to Talmudic Judaism. 3 points.

PROFESSOR GOLDIN. T 4:10-6:00. 318 Hamilton.

★21. Ancient Religions. 2 points.

MR. WEKERLE. M W 3:10. 401 Low.

★22. Oriental Religions. 2 points.

MR. WEKERLE. M W 3:10. 401 Low.

★23. Biblical Ethics. 2 points.

DR. KRUMM. T Th 10. 505 Business.

★24. Christian Ethics. 2 points.

DR. KRUMM. T Th 10. 505 Business.

★55. Religion and the Arts. 3 points.

DR. TAUBES. Th 6:10-8:00 p.m. 401 Low.

★61. Contemporary Catholic Thought. 3 points.

PROFESSOR ULANOV. Th 4-6:15. 518 Hamilton.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. Descriptions may be found in the Announcement of the Graduate Faculties. The following courses are recommended:

★107, 108. Biblical Literature and Western Imagination. 6 points.

PROFESSOR TAUBES and members of the department. W 4:10-6.

★119, 120. An Introduction to the History of Judaism. 6 points.

PROFESSOR BLAU. T 7:10-8:50 p.m.

★134. Kierkegaard and Religious Existentialism. 2 points.

PROFESSOR JOHNSON. M 7-8:40 p.m.

★138. Readings in the Sociology of Religion. 3 points.

PROFESSORS FRIESS and TAUBES. Hours to be arranged.

★159. The Crisis of Religion in Modern Times. 3 points.

PROFESSOR TAUBES. T 7-8:40 p.m.

★Latin 220. Roman Stoicism. 3 points.

—————. Hours to be arranged.

SOCIOLOGY

PROFESSOR: ¹MIRRA KOMAROVSKY

ASSOCIATE PROFESSOR: BERNARD BARBER (Acting Executive Officer), GLADYS MEYER

ASSISTANT PROFESSOR: RENÉE CLAIRE FOX

LECTURERS: RICHARD E. BROTMAN, DANIEL BELL

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general.

A student majoring in sociology will be required to take: Sociology 1-2 and other sociology courses to be selected in consultation with the major adviser. Courses 32; 33; 34; 35; 38; 41; 43, 44 are strongly recommended. Economics 17 is the only course given outside the department which may count towards the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also Interdepartmental Offerings, page 32.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

1-2. Introduction to Sociology. 6 points.

[18]

An introduction to sociological analysis with emphasis on contemporary American society. Winter Session: The structure of society. The family and the other major social institutions; class stratification; social groups, codes, and control; ecology and social organization of modern communities. Spring Session: Social change and social problems. Population and migrations, race and group conflict, community disorganization and crime. Problems of social reorganization. Fulfils the requirement in contemporary society. PROFESSORS BARBER, MEYER and FOX.

¹ Absent on leave, 1958-59.

SOCIOLOGY

Section I M W F 10. 202 Milbank. (Open only to freshmen and sophomores)

Section II M W F 11. 203 Milbank. (Not open to freshmen)

Section III T Th 9:10-10:25. 101 Barnard. (Not open to freshmen)

Section IV M W F 2. 37 Milbank. (Open only to freshmen and sophomores)

21-22. Introduction to Social Work. 6 points. [9]

The social and economic situations which lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in philosophy and policy of social work. Field work for one-half day a week is required and placements are arranged in approved social agencies offering supervision. Open to juniors and seniors. Prerequisite: Course 1-2, Economics 1-2, Psychology 1, or the permission of the instructor. PROFESSOR MEYER. T 2:10-4. 203 Milbank.

[31. Marriage and the Family.] 3 points. PROFESSOR KOMAROVSKY.

Not given in 1958-59.]

[32. The Family.] 3 points. PROFESSOR KOMAROVSKY.

Not given in 1958-59.]

33. The Community. I. Rural-Urban Sociology. 3 points. [4]

Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1. 517 Milbank Penthouse.

34. The Community. II. Ethnic and Minority and Intergroup Relations. 3 points. [4]

The composition and distribution of populations; major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1. 517 Milbank Penthouse.

35. American Social Classes. 3 points. [5]

Analysis of modes of living, and group alignments at different social levels in American urban life. Problems of power; the extension of bureaucracy and the growth of white-collar occupations. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 2. 406 Barnard.

38. Comparative Social Institutions. 3 points. [5]

The social institutions that exist in all societies; their different forms. Com-

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parative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 2. 202 Milbank.

[40. **The Sociology of Occupations.** 3 points. PROFESSOR BARBER.

Not given in 1958-59.]

R41. Recent Sociological Theories. 3 points.

[2]

A critical appraisal of the works of some American and European sociologists, particularly as they bear on the problems of social change and social movements. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 10. 411 Barnard.

42. Social Movements. 3 points.

[9]

An examination of ideological movements which have challenged established social order in western society in modern times. The sources of political messianism; the patterns of revolution; doctrines of Marxism; the appeals of radicalism; techniques of party organization; the rise and role of the intellectuals as a class. Prerequisite: Course 1-2. MR. BELL. Th 2:10-4. 203 Milbank.

43, 44. Methods of Sociological Research. 6 points.

[10]

Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1-2. Course 43 is prerequisite for Course 44, except by special permission of the department. PROFESSOR FOX. M W F 3. 309 Milbank.

87. Juvenile Delinquency. 3 points.

[6]

Causation, treatment and prevention of delinquent behavior. Multiple factor approaches to the understanding of deviance in American society. Prerequisite: Course 1-2. DR. BROTMAN. T Th 9:10-10:25. 29 Milbank.

97, 98. Seminar. 6 points.

[0]

Individual projects under the supervision of all members of the department. Open to senior majors. PROFESSORS MEYER, BARBER and FOX. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found

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in the Announcement of the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

- ★115. Religion and Society. 3 points. PROFESSOR GLOCK.
- ★116. Religion and Values in Contemporary Life. 3 points. PROFESSOR GLOCK.
- ★R118. Sociology of Knowledge. 3 points. PROFESSOR BARBER.
- ★121. Industrial Sociology. 3 points. PROFESSOR EVAN.
- ★126. Systematic Study of the Family. 3 points. PROFESSOR GOODE.
- ★R134. The Study of Public Opinion. 3 points. PROFESSOR LAZARSFELD.
- ★135. Public Opinion. 3 points. PROFESSOR HYMAN.
- ★161. Political Sociology. 3 points. PROFESSOR NEHNEVAJSA.
- ★176. National Planning as a Process of Institutional Change. 3 points. PROFESSOR LYND.

SPANISH

PROFESSOR: AMELIA A. DE DEL RÍO (Executive Officer)

ASSOCIATE PROFESSORS: ¹MARGARITA U. DA CAL, EUGENIO FLORIT

ASSOCIATE: LAURA R. DE GARCÍA-LORCA

LECTURER: MARIA TERESA ESCOBAL

A major in Spanish is designed to enable the student to understand, speak and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel or the theatre or on a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13, 14; 15a-16a; 19; 22; and 23-24; and either 17-18; 25-26; 27-28, or a more advanced course to be chosen in consultation with the department. Courses 1-2; 3, 4; 3a, 4a, and 9-10 do not count towards the major requirement.

Other fields: The following courses are recommended: Anthropology 9-10; Fine Arts 75, 76; French 7-8; History ★19, 20; Italian 21; ★193-194; Philosophy 1; 61-62.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

LANGUAGE COURSES

1-2. Elementary Full-Year Course. 8 points.

[17]

Grammar, reading, conversation. May not be taken parallel to Italian 1-2.
PROFESSORS DEL RÍO, DA CAL, MRS. GARCÍA-LORCA and MRS. ESCOBAL. Section I M T W Th F 9. 203 Milbank. Section II M T W Th F 2. 319 Milbank.

3, 4. Intermediate Course. 6 points.

[17]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish American literatures. Monthly book reports on outside reading. PROFESSOR DA CAL and MRS. GARCÍA-LORCA. Section I M W F 9. 209 Milbank. Section II M W F 1. 209 Milbank.

3a. Intermediate Course in Grammar and Composition. 3 points.

[17]

The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions

¹ Absent on leave, Spring Session.

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on outstanding novels and poetry. Monthly book reports on outside reading.
MRS. GARCÍA-LORCA. M W F 11. 212 Milbank.

4a. Advanced Course in Grammar and Composition. 3 points. [17]

Emphasis on original composition and translation from Spanish into English and from English into Spanish. Prerequisite: Course 3a or 4. MRS. GARCÍA-LORCA. M W F 11. 212 Milbank.

[5, 6. Spanish Composition.] 4 points. PROFESSORS DEL RÍO and DA CAL.

Not given in 1958-59.]

[5x, 6x. Spanish Composition.] 4 points. PROFESSOR FLORIT.

Not given in 1958-59.]

9-10. Intermediate Spanish Conversation. 2 points. [0]

Open only to students taking another Spanish course, either session. MRS. ESCOBAL. Section I T 3. 209 Milbank. Section II Th 3. 209 Milbank.

11-12. Advanced Spanish Conversation. 2 points. [0]

Discussion and reports on Spanish subjects. Prerequisite: Course 9-10. Open only to students taking another Spanish course, either session. MRS. ESCOBAL. Th 4. 22 Milbank.

[31-32. Oral Spanish, Advanced Course.] 4 points. PROFESSOR DA CAL.

Not given in 1958-59.]

LITERATURE COURSES¹

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C- or higher is obtained.

13, 14. The Culture of the Hispanic Countries. 4 points. [4]

Winter Session: The history and culture of Spain. Spring Session: The development of Spanish American culture. Lectures and monthly book reports. Prerequisite: Course 3, 4 or 5, 6. PROFESSOR FLORIT. M W 1. 22 Milbank.

§15-§16. Introduction to Spanish Literature. 6 points. [17]

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSOR FLORIT and MRS. GARCÍA-LORCA. Section I M W F 10. 406 Barnard. Section II M W F 11. 409 Barnard.

§15a-§16a. Spanish Literature. 6 points. [17]

Spanish literature from its origins to the end of the seventeenth century, with

¹ All courses are conducted entirely in Spanish.

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emphasis on Cervantes. Monthly reports on novels or dramas. Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15–16. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSOR DEL RÍO. M W F 10. 22 Milbank.

§17–§18. The Spanish Drama of the Golden Age. 6 points. [3]

Winter Session: Reading and discussion of the medieval antecedents and the sixteenth century theatre, including Lope de Vega. Spring Session: The theatre after Lope de Vega with emphasis on Calderón. Monthly book reports. Prerequisite: Course 15–16, 15a–16a or the written permission of the department. PROFESSOR DEL RÍO. M W F 11. 22 Milbank.

§19. Nineteenth Century Literature in Spain. 3 points. [10]

Romantic drama and poetry; the realistic novel. A paper on Galdós. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR DA CAL. T Th 3. 39 Milbank.

§R22. Contemporary Spanish Literature. 3 points. [9]

A study of outstanding authors from 1898 to 1936. Three book reports on the main novelists. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR DEL RÍO. T Th 2. 4 Milbank.

§23–§24. Spanish American Literature. 4 points. [8]

Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR FLORIT. T Th 11. 22 Milbank.

[**§25–§26. Cervantes.** 6 points. PROFESSOR DEL RÍO.

Not given in 1958-1959.]

[**§27–§28. Spanish Poetry.** 6 points. PROFESSOR FLORIT.

Not given in 1958-59.]

29, 30. Special Reading. 4 points. [0]

Discussion on assigned reading to coordinate and supplement the work done in other courses; review of tendencies and literary movements and developments of main literary genres. Open only to seniors. MEMBERS OF THE DEPARTMENT. T Th 2. 209 Milbank.

***Latin-American Seminar 81–82.** 8 points.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin America Areas. PROFESSOR DE MORELOS, with the assistance of PROFESSORS MORSE and HARRIS. M 3–5 313 Hamilton.

ZOOLOGY

PROFESSORS: AUBREY GORBMAN (Executive Officer), JOHN A. MOORE

ASSOCIATE PROFESSOR: ¹INGRITH J. DEYRUP

LECTURERS: LUCENA J. BARTH, -----

ASSISTANTS: ARLEEN BRANNING, -----, -----

The major program is designed to serve a variety of needs. Some students major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend in part on the ultimate aims of the student, but some general advice can be offered. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary. This is necessary in order to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

All students majoring in zoology should take Course 1-2 during the first year if possible. Beyond this, there are no specific course requirements, but the following has been found to be a satisfactory sequence for most majors; second year: Courses 3 and 14; third year: Course 13; fourth year: Courses 15 and 72.

Chemistry 1-2 and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics, 3-4, should be taken by majors who plan on graduate work or a career in medicine. This may be taken during the senior year. Graduate work in zoology requires a knowledge of German and French.

Students are encouraged to do summer work in zoological laboratories, such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance towards such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

The major thesis, which is closely correlated with the senior seminar, 72, represents an attempt to correlate and analyze the basic concepts of zoology. Further information about it may be obtained from members of the department.

1-2. General Zoology. 10 points.

[1]

An introduction to the data, methods and philosophy of modern zoology. The development of genetic concepts, the problems of embryology, evolution and physiology. The laboratory work consists largely of a study of important invertebrates and vertebrates, together with some exercises on cell structure, genetics, embryology and physiology.

PROFESSOR MOORE and assistants.

¹ Absent on leave, Winter Session.

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Lec. M W F 9. Minor Latham Playhouse. Lab. (4 hours) M 1-5; T 2-6;
W 1-5; Th 2-6; F 1-5. 406 Milbank.

1a—2a. General Zoology. 6 points.

[1]

Lectures identical with those of 1—2. No laboratory work. To follow or parallel a laboratory science. PROFESSOR MOORE. M W F 9. Minor Latham Playhouse.

3. A Study of Biological Concepts. 4 points.

[6]

An historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated. Prerequisite: Course 1—2 or special permission. DR. BARTH. Lec. T Th 9. 204 Milbank. Lab. F 1-5. 402 Milbank.

13. Histology and Histological Methods. 5 points.

[8]

The microscopic anatomy of vertebrates studied in its descriptive, developmental, comparative and functional aspects. A portion of the laboratory work is devoted to preparation of tissues for microscopic study. Prerequisite: Course 1—2. PROFESSOR GORBMAN. Lec. T Th 11. 309 Milbank. Lab. (4 hours) W 1-5 or Th 2-6. 408 Milbank.

14. Embryology. 4 points.

[8]

The development of the vertebrate animal, with a consideration of some of the factors which influence development. Prerequisite: Course 1—2. May be taken parallel to Course 2 with permission of the instructor. PROFESSOR GORBMAN. Lec. T Th 11. 309 Milbank. Lab. (4 hours) W 1-5 or Th 2-6. 408 Milbank.

R15. General Physiology. 6 points.

[2]

The physical characteristics, chemical composition and properties of protoplasm and of cell components. Energy transformations and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail. Prerequisite: Course 1—2; Chemistry 41 preceding or parallel is recommended. PROFESSOR DEYRUP. Lec. M W F 10. 39 Milbank. Lab. (6 hours) M W 2-5 or T Th 2-5. 402 Milbank.

61, 62. Problems in Zoology.

[0]

Work will be planned to suit the needs of the student after consultation with the instructors. PROFESSORS DEYRUP and GORBMAN and DR. BARTH. Hours and credit by arrangement.

72. Senior Seminar. 2 points.

[0]

Reading of literature and discussion of fundamental problems of zoology. DR. BARTH. Conference period: T 2. 311 Milbank.

ZOOLOGY

129. Comparative Endocrinology. 3 points. [1]

Comparative physiology, morphology and development of the endocrine systems. The relation of endocrine secretions to environmental adaptations, behavior and reproduction of animals. Prerequisite: Courses 1-2 and 13. Organic chemistry is recommended. PROFESSOR GORBMAN. M W F 9. 29 Milbank.

130. Experimental Procedures in Endocrinology. 3 points. [0]

The basic laboratory procedures used in the study of endocrine phenomena, including familiarization with biochemical preparations, bioassay, surgery, and radioisotopic tracers. Prerequisite: Course 129 and written permission of the instructor. PROFESSOR GORBMAN. Lab. M 1-4 and three hours to be arranged.

[**152. Vertebrate Physiology.** 6 points.

Not given in 1958-59.]

152a. Vertebrate Physiology. 3 points. [3]

The functions and interrelationships of the organs and organ systems of vertebrates. Circulation, respiration, gastro-intestinal function, excretion, additional mechanisms concerned with the regulation of the internal environment, and the integrative role of the central nervous system. Prerequisite: Course 1-2 or the equivalent, inorganic chemistry and physics. Admission only with written permission of the instructor. PROFESSOR DEYRUP. Lec. M W F 11. 39 Milbank.

VI. Professional Schools

Professional training is available at Columbia University in many different areas. Barnard College keeps in close touch with the schools and Class Advisers give pertinent advice concerning them.

The requirements for admission vary: in some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Full information in regard to each school may be obtained from the Secretary of Columbia University.

THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in professional school. To be eligible for this privilege the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

ARCHITECTURE

The School of Architecture offers a course of study leading to the degree of Bachelor of Architecture. Under normal conditions, the professional degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year each of English, a foreign language (preferably French or German), mathematics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

BUSINESS

The Graduate School of Business offers: a one-year course of study leading to the degree of Master of Science for college graduates who have majored in business; a two-year course of study leading to the de-

gree of Master of Business Administration for college graduates without previous preparation in business; and advanced studies leading to the degree of Doctor of Philosophy.

Applications for a degree program will be accepted only from students who plan to study during the day-time.

To meet the educational needs of college graduates who wish to undertake advanced business training while employed, special students will be admitted for study, without degree credit, after an interview with the Assistant Dean.

DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60) points of college work. The preparatory work at Barnard should include the satisfactory completion of the following requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than 8 of the 60 credits required for admission will be considered for matriculation on condition that the 8 credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists' Alumnae Association of Columbia University.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 6 points each in English composition and literature, physics, zoology, inorganic chemistry and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

ENGINEERING

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, and mineral engineering. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in

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mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads to the degree of Bachelor of Science only.

Students who are interested in engineering should offer at entrance to Barnard mathematics through trigonometry, one credit in chemistry, and if possible, one in physics. For details the student should consult the Dean of the School of Engineering.

Further information about the engineering program and the advanced degrees may be obtained from the Announcement of the School of Engineering.

INTERNATIONAL AFFAIRS AND AREA INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one world area together with the development of one of the following functional specialties: business affairs, economic affairs, government affairs, international administration, and legal affairs. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a superior undergraduate record and (b) a Bachelor's degree from an approved institution. In addition to these basic requirements, the student must satisfy special requirements of the functional field in which she plans to specialize.

Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concen-

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tration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Program on East Central Europe, Russian Institute, European Institute.

Further information may be obtained from the Office of University Admissions.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade. Although there is no required pre-law curriculum, students would be well advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both. The minimum requirement for admission is three years (90 points) of college work, but the complete college course of four years is considered advisable. Admission is on a competitive basis. All applicants for admission to the Law School are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must be of good grade and must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one

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academic year each, and approved courses in chemistry, covering at least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

NURSING

Columbia University offers a course of two years and nine months' duration at the College of Physicians and Surgeons and the Presbyterian Hospital leading to the degree of Bachelor of Science and a diploma in nursing. The preparatory work at Barnard should comprise work in chemistry or biology, psychology, and sociology. The acceptance of a candidate is based on grounds of character and health as well as on the fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work. The course for students who hold the Bachelor's degree is two years and four months.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. The candidate for admission must offer two years (60 semester hours) of acceptable college work, including a minimum of 6 semester hours in biology (including zoology), chemistry or physics; and 3 semester hours each in psychology and sociology. The course of study is of twenty-five months' duration, including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of 6 semester hours in biology (including zoology), chemistry or physics; 6 semester hours in psychology and 3 semester hours in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a Certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health and emotional stability.

Additional information may be obtained from the Office of Occupa-

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tional and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

PAINTING AND SCULPTURE

The School of Painting and Sculpture offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Fine Arts (in Painting or Sculpture).

PHYSICAL THERAPY

The Faculty of Medicine offers a program of training in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 points) of acceptable college work, including 6 points in biological science, 4 points in physics or chemistry, and 6 points in psychology.

The course of professional study covers twenty-one calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: 8 semester credits in biological science; 6 semester credits in physics or chemistry (preferably both); 10 semester credits in social science (of which 6 must be in psychology). The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Hospital Administration, Administrative Medicine, Biostatistics, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar

BARNARD COLLEGE

year's duration is required of all hospital administration students, and candidates for the degree in Administrative Medicine.

SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science. The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School has a limited enrollment and admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained upon request.

TEACHERS COLLEGE

Teachers College, Columbia University, offers college graduates a one-year course of study leading to the Master's degree and to teacher certification in any one of these teaching fields: nursery education, kindergarten, elementary education, biology, business subjects, chemistry, English, fine arts, foreign languages, health education, history, mathematics, music, physical education, physics, recreation, science, social studies, speech, and special programs for work with the blind, hard of hearing, deaf, mentally retarded and physically handicapped.

This fifth year at Teachers College provides for practical experience and classroom instruction. For guidance on planning programs for teacher preparation—see Dean Bailey, 117 Milbank Hall, and Professor Lange, 311 Dodge Hall, Teachers College.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose,

PROFESSIONAL SCHOOLS

personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below:

- a. Bachelor of Divinity. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.
- b. Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.
- c. Master of Religious Education. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated above.
- d. Master of Sacred Music. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

VII. Fees

Barnard College cannot charge its students the full cost of their education if it is to make intellectual ability, and not merely ability to pay, the deciding factor in admissions. Tuition and other student fees make up only about two-thirds of the cost of educating a student at Barnard, and the balance must be provided by income from endowment and by annual gifts from alumnae and other friends of the College. Every effort is made to keep fees at a minimum by economies of operation which do not affect the quality of education, and by efforts to increase both endowment and annual giving.

SUMMARY OF FEES

I.	Full-time non-resident students	Each Session	Academic Year
A.	Registration	\$ 10.00	\$ 20.00
	Tuition	540.00	1,080.00
	Student Activity Fee.....	7.75	15.50
	Medical Fee	5.00	10.00
		<hr/> \$562.75	<hr/> \$1,125.50
B.	Optional additional Medical Fee to participate in Colum- bia University Student Med- ical Plan*	5.00	10.00
	Total	<hr/> \$567.75	<hr/> \$1,135.50
II.	Full-time resident students		
	Registration	\$ 10.00	\$ 20.00
	Tuition	540.00	1,080.00
	Room, Board, and Laundry....	427.50	855.00
	Student Activity Fee	7.75	15.50
	Medical Fee	10.00	20.00
	Total	<hr/> \$995.25	<hr/> \$1,990.50
III.	Other students		

Matriculated students taking less than a full schedule (11 points or less) and all non-matriculated students are required to pay the registration and medical fees each session, as well as \$45 per point for all academic work and \$5 for physical education, if this is required.

* This additional fee is required for all non-resident students not living with parents or relatives.

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All matriculated students are also required to pay the student activity fee.

IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing winter or spring session, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the tuition bill of the winter or spring session, as the case may be. The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room for the following academic year. One half of this deposit (\$25) will be applied to the rent bill of the winter session and the remainder to the rent bill of the spring session. The entire deposit is forfeited in case of withdrawal.

Deposits for the use of apparatus and material required in:

Chemistry 23	\$10
Chemistry 24, 26, 41, 42, 64, 107, 108, 137, 138, each course	15

V. Payment of Fees

All fees are payable semiannually in advance. No reduction is made for late registration. Registration is not complete until all fees are paid, including residence hall fees. Failure to complete registration (including the payment of all fees) on time imposes automatically the statutory charge of \$15 for late registration.

Fees, including fees for room and board for resident students, accompanied by the stub of the bill must be paid by September 15 for the winter term and by January 15 for the spring term. If payments are mailed, envelopes must be postmarked not later than September 15 or January 15 respectively. Students admitted for the winter session after September 10 must pay their bills not later than September 25.

All fees are subject to change at any time at the discretion of the Trustees.

BARNARD COLLEGE

Checks or money orders in payment of all fees, including those for charges in the residence halls, should be in U. S. currency and should be made payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the winter session or by May 1 of the spring session, if the student is to be permitted to take her examinations and receive credit for the session's work.

The privileges of the College are not available to any student who is delinquent in the payment of her fees.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session.)

Note: NEW YORK STATE SCHOLARS at the time of registration must file with the Bursar notice of their official award, received from Albany.

VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the session until November 15 or March 15, provided that such permission is granted before August 15 (for the winter session) or December 15 (for the spring session). Any application for the privilege of deferred payment made after August 15 or December 15 will be considered late payment and as such will be subject to a late payment fee of \$5. Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for tuition and residence will become due immediately.

VII. Refunds

As contracts with instructors and provisions for education and residence are made by the College in advance for the entire year, no refunds of registration, tuition or rent can be made after these fees become due, except in cases of extreme hardship, of which the College shall be the sole judge. Refunds for board may be made at the discretion of the College and will be computed on a pro-rata basis from the date of withdrawal to the end of the session. Application for the refund must be made in

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writing at the time of withdrawal to the Director of the Residence Halls. No refunds will be made for special diets, but the Director of Food Services will make every effort to cater to the needs of individual students.

VIII. Additional Charges

Freshman orientation: Room and board fee..... \$10.00

Tuition for courses in applied music: See departmental announcement of courses, page 99.

Tuition for technical courses in fine arts: See announcement of the School of General Studies for special fees.

Tuition for General Studies courses: See announcement of the School of General Studies for special fees.

Late registration for academic work (see page 157) ... 15.00

Late filing of program 10.00

For students in college who fail to file their programs for the coming session within the period announced for that purpose. In the spring term students who defer filing programs until after Commencement are fined \$20.

Deficiency and special examinations, payable in each case before the examination is held:

For each deficiency examination..... 5.00

For each special examination..... 10.00

(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended.)

For late application for any such examination or for the foreign language test..... 5.00

For the degree 20.00

This fee is never refunded. It must be paid on or before April 15 by candidates for the degree in June or October and by January 1 by candidates for the degree in February.

IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include: a gymnasium costume, approximately \$15; Student Government dues of \$2 for resident students; and a minimum of \$40 per year for textbooks. Non-resident students should estimate a minimum \$100 (\$3 weekly) for lunches if they plan to buy them

BARNARD COLLEGE

in the cafeteria or snack bar. Individual estimates of expense should also include transportation, clothes, supplies, and amusements.

X. Medical Plan

The medical service is available to all students and is covered by a \$5 fee payable each session. Medical examinations are required for freshmen, sophomores and seniors. (Students will not be allowed to register for the succeeding term until they have had the required medical examination. The final date for completion of the examination by the college physician is January 15 for seniors; for freshmen and sophomores May 15.)

Resident students and non-resident students not living with family or relatives are required to pay an additional medical fee of \$5 each session. This allows them to participate in the Columbia University Students Medical Plan during the academic year. Non-resident students living at home may also participate in this plan by paying the additional \$5 fee each session. The CUSMP entitles the student to the following services:

- A. Barnard College Medical Office: Medical treatment for conditions not requiring bed care; admittance to the Columbia University Infirmary.
- B. Columbia University Medical Office: Consultation with specialists; surgical treatment for minor surgical conditions; laboratory and x-ray studies as deemed advisable. All students must be referred by the Barnard College physician.
- Not provided: Dental care; fitting and provision of glasses; house calls.
- C. Columbia University Infirmary: Bed care for ten days a semester will be provided without charge.
- D. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each semester. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

XI. Hospital Insurance

Membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1, costs \$29.76. Consult the Bursar for complete information.

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Foreign students who live outside the United States are required to subscribe each year to the Exchange Students' Medical Expense Policy issued by the U. S. Life Insurance Company, ESE Program, 84 William Street, New York 38, N. Y.

Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students coming to Barnard College should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the local post office will cash upon presentation of the bursar's receipt. A bursar's receipt is issued when a student registers at the beginning of each semester.

It is also possible to open a checking, special checking or savings account at one of the local banks:

Chemical Corn Exchange Bank
Broadway and 113th Street, New York 25, N. Y.

First National City Bank of New York
Broadway and 111th Street, New York 25, N. Y.

American-Irving Savings Bank
Broadway and 111th Street, New York 25, N. Y.

VIII. Financial Aid

The College desires that no qualified student be excluded from Barnard because her family has only moderate means.

In effect, every student at Barnard receives some financial aid from past donors, because the College fees do not cover the entire cost of educating the student today. The balance is made up by endowment income and gifts. In addition, scholarships, grants-in-aid, loan funds and provisions for self-help (see Placement Office, page 164) are provided in order to open Barnard's doors to girls of superior talent from all sections of the country, without regard to their ability to pay.

Scholarship funds are, however, never sufficient to meet all the demands. For this reason it is hoped that those who benefit from this assistance may take a special interest in adding to the scholarship funds of the College after they have been graduated.

SCHOLARSHIP FUNDS

Barnard scholarships are awarded annually by the Scholarship Committee to full-time students of high scholarly ability, excellent character, and promise of future usefulness, who are in need of financial aid. For resident students, scholarships generally range from \$150 to \$1,325 on a total annual bill of \$1,990.50. Five special awards, \$1,550 to \$1,990.50, are available to qualified resident freshmen. For students who do not live at the College, scholarships range in value from \$100 to \$700 on a total bill of \$1,125.50.

ENTERING STUDENTS: All awards are granted on the basis of school records, general merit, need, and the results of the scholastic aptitude and achievement tests, taken in the senior year in high school. Entering scholarships are for one year only. If the student makes a good record at Barnard, she is eligible to apply for further assistance in subsequent years. The amount of the award after the freshman year, however, is based on the assumption that the student will make a reasonable contribution to her college expenses from her own earnings. Since funds are limited, each candidate is asked to apply for the minimum scholarship needed.

Scholarship applications from entering students should be in the hands of the Director of Admissions on or before February 15. Blanks for this purpose may be obtained from the Admissions Office and must be filed with the application for admission. It is not necessary to apply for a specific scholarship as listed in the following pages.

All scholarship applicants must also file a financial statement with the

FINANCIAL AID

College Scholarship Service, Box 176, Princeton, New Jersey, or Box 27986, Los Angeles 27, California, not later than February 15 of the senior year in high school. Forms will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for a scholarship.

The colleges in the Seven College Conference (including Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley) have agreed to cooperate in an effort to award scholarships on a non-competitive basis. Candidates who qualify for scholarships from more than one of the colleges will be offered, whenever possible, awards which are equivalent and vary only in the amount of the difference in the fees of the colleges.

Applicants are notified of awards at the time they receive their notice of admission to the college.

STUDENTS IN COLLEGE: Students in college who are in need of financial aid (scholarships, grants-in-aid, as well as loans) and are academically qualified must file applications on special blanks obtainable in the office of the Dean of Studies. Applications must be filed early in the spring semester for the ensuing year, the exact date to be announced.

Applicants for scholarships will be notified as soon as awards are made. Recipients are requested to inform the Dean of Studies immediately, in writing, if because of change of plans, they do not intend to use the funds awarded.

SCHOLARSHIP FUNDS—UNRESTRICTED¹

The income from these funds is available each year.

ALUMNAE SCHOLARSHIP FUND. Approximately \$14,900. Established by the Class of 1912 at its tenth reunion, it was subsequently increased by a legacy from the estate of Julia Ludlow Young and by gifts of other alumnae.

ANNA E. BARNARD SCHOLARSHIP FUND. \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND. \$5,000. Established in 1950 in honor of Ruth Marshall Billikopf, Class of 1919.

VARIAN WHITE BLUMBERG SCHOLARSHIP FUND. \$5,000. Established in 1952 by a legacy from the Estate of Varian White Blumberg, Class of 1913.

¹ Figures compiled as of January 1, 1958.

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CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND. \$10,000. Established in 1913 with a bequest from the late Annie P. Burgess.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND. \$1,000. Given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a memorial to the late Mrs. Eva-Lena Miller Booth.

BREARLEY SCHOOL SCHOLARSHIP FUND. \$3,000. Established in 1899 by pupils and former pupils of the Brearley School.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND. \$4,000. Established in 1915 by her friends in memory of Martha Ornstein Brenner, Class of 1899.

JENNIE B. CLARKSON SCHOLARSHIP FUND. \$3,000. Established in 1898 by the late Mrs. W. R. Clarkson.

CLASS OF 1921 SCHOLARSHIP FUND. \$2,500. Established in 1931 as a tenth reunion gift by the Class of 1921.

CLASS OF 1954 SCHOLARSHIP FUND. \$2,287. Established in 1955 to receive gifts from members of the Class of 1954 through the time of their fifth reunion in June, 1959.

IRMA ALEXANDER GOLDFRANK FUND. \$2,105. Established in 1919 by the friends of the late Irma Alexander Goldfrank, Class of 1908.

ADA M. DONELLE SCHOLARSHIP FUND. \$121,751. Established in 1948 with a bequest from the late Mrs. Ada M. Donelle.

FISKE SCHOLARSHIP FUND. \$5,000. Established by the late Mrs. Martha T. Fiske-Collord.

GRAHAM SCHOOL SCHOLARSHIP FUND. \$7,266. Established in 1907 by the Graham Alumnae Association.

LOUISE H. GREGORY SCHOLARSHIP FUND. \$4,297. Established in 1955 from gifts in memory of Louise H. Gregory.

HARKNESS SCHOLARSHIP FUND. \$100,000. Established in 1939 by a gift from the late Edward S. Harkness.

CHARLES EVANS HUGHES SCHOLARSHIP FUND. \$14,300. Established in 1952 on the basis of a bequest from the late Charles Evans Hughes in 1949.

LILY MURRAY JONES SCHOLARSHIP FUND. \$25,100. Established in 1950 by Murray, Alfred, and Wallace Jones in memory of Lily Murray Jones, Class of 1905, Alumnae Trustee from 1939 to 1943.

AUGUSTA LARNED SCHOLARSHIP FUND. \$10,000. Established in 1924 with a bequest from the late Augusta Larned.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND. \$7,116. Established in 1955 with a gift from Joan Sperling Lewinson, Class of 1913.

JUDITH LEWITTES SCHOLARSHIP FUND. \$2,060. Established in 1957 by her family and friends in memory of Judith Lewittes, Class of 1955. Awarded to students with high academic standing.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate prizes, page 154.

FINANCIAL AID

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND. \$5,000. Established in 1947 by the Estate of the late Grace Farrant Luby, Class of 1893.

MEMORIAL SCHOLARSHIP FUND. \$8,605. Established in 1954 to receive contributions given in memory of deceased alumnae and friends.

WILLIAM MOIR SCHOLARSHIP FUND. \$10,000. Established in 1912 by the late Mrs. William Moir, in memory of her husband.

CAROLINE CHURCH MURRAY FUND. \$5,000. Established in 1918 by Mr. George Welwood Murray in memory of his wife, Caroline Church Murray.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND. \$3,000. Established in 1947 by the Estate of the late Frederick Nathan.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND. \$5,000. Established in 1940 with gifts from her family and friends, in memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930.

PETER C. RITCHIE, JR., SCHOLARSHIP FUND. \$4,400. Established in 1937 with a bequest from the late Virginia J. Ritchie.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND. \$17,805. Established in 1950 by the family, friends, and classmates of the late Edith Lowenstein Rossbach, Class of 1919.

EDNA HELLER SACHS SCHOLARSHIP FUND. \$6,000. Established in 1955 with a gift from Edna Heller Sachs, Class of 1910.

ELEANOR BUTLER SANDERS SCHOLARSHIP FUND. \$10,000. Established in 1922 with a bequest from the late Henry M. Sanders.

ANNA M. SANDHAM SCHOLARSHIP FUND. \$10,000. Established in 1922 with a bequest to Columbia University from the late Anna M. Sandham.

SCHMITT-KANEFENT SCHOLARSHIP FUND. \$7,000. Established in 1931 with a bequest from the late Catherine Schmitt.

SCHOLARSHIP FUND. Approximately \$12,000. Established by general subscription through the Scholarship Committee of the Board of Trustees.

EMILY JAMES SMITH SCHOLARSHIP FUND. \$3,000. Established in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, Dean of Barnard College from 1894 to 1900.

GEORGE W. SMITH SCHOLARSHIP FUND. \$5,000. Established in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a trustee of Barnard College.

EDNA PHILLIPS STERN SCHOLARSHIP FUND. \$20,497. Established in 1952 by the family and friends of the late Edna Phillips Stern, Class of 1909.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND. \$4,865. Established in 1957 by the family of the late Isabel Greenbaum Stone, Class of 1918. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so.

VELTIN SCHOOL SCHOLARSHIP FUND. \$3,000. Established in 1905 by the alumnae of Mlle. Veltin's School.

BARNARD COLLEGE

ALMA F. WALLACH SCHOLARSHIP FUND. \$1,000. Established in 1951 by the Estate of the late Richard L. Leo in memory of Alma F. Wallach.

ELLA WEED SCHOLARSHIP FUND. Approximately \$8,600. Established in 1895 by the pupils and alumnae of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

HYMEN WERNER SCHOLARSHIP FUND. \$4,500. Established in 1953 with a gift from Helen Frankfield Werner, Class of 1906, in memory of her husband, Hymen Werner.

SCHOLARSHIP FUNDS—RESTRICTED¹

The income from these funds is available each year.

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND. \$1,000. Established in 1916 by Mrs. James Herman Aldrich to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND. Approximately \$21,900. Established in 1952 for a Barnard student whose home is outside the area of the City of New York.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND. \$4,000. Established in 1916 by the alumnae of the Barnard School for Girls. Awarded to a student in any class preference being given to nominees of the school.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND. \$10,000. Established in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, Class of 1900. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school.

IRVING BERLIN SCHOLARSHIP FUND. \$23,500. Established in 1950 by Irving Berlin. Awarded annually to one or more girls of foreign-born parentage.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND. \$10,000. Established in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, Class of 1915. Awarded during her senior year to a student specializing in French.

BROOKLYN SCHOLARSHIPS. Twelve at \$150 each. Established in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND. Approximately \$31,339. Established in 1939 by the Anne Brown Alumnae Association for young women of the City of New York and dedicated to the late Anne Brown.

CARPENTIER RESIDENCE SCHOLARSHIP FUND. \$200,000. Established in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

¹ Figures compiled as of January 1, 1958.

FINANCIAL AID

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND. \$3,000. Established in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

MRS. HENRY CLARKE COE SCHOLARSHIP FUND. \$3,600. Established in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

CLASS OF 1919 DECENTNIAL FUND. \$5,000. Established in 1929 for a resident student, as a tenth reunion gift by the Class of 1919.

ENGLISH SCHOLARSHIP FUND. \$5,000. Established in 1920 by an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject.

MARTHA T. FISKE SCHOLARSHIP FUND. \$5,000. Established in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. Awarded to an applicant not a resident of New York City or its suburbs.

FOOD FAIR SCHOLARSHIP. Established in 1954 by the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

HELEN JENKINS GEER SCHOLARSHIP FUND. \$5,000. Established in 1940 by Helen Hartley Geer, Class of 1940, in memory of her mother, Helen Jenkins Geer, Class of 1915. Awarded annually, after conference with the donor.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND. \$15,100. Established in 1937 by Mr. Charles R. Crane in honor of the international work of Dean Emeritus Gildersleeve. Awarded annually to a foreign student coming to Barnard to study.

EMMA HERTZOG SCHOLARSHIP FUND. \$3,000. Established in 1904 by gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school.

MARION ALICE HOEY FUND. \$2,000. Established in 1944 by Miss Nellie Poorman in memory of a graduate of Barnard College in the Class of 1914. Preference is given to applicants studying Greek and Latin.

LILLIA BABBITT HYDE SCHOLARSHIP FUND. \$25,000. Established in 1953 by the Lillia Babbitt Hyde Foundation. Awarded to pre-medical students.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND. \$5,000. Established in 1928 with a bequest from the late Fannie A. Jackson, in memory of her sister. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS. Established in 1951 (varying in number) and provided each year by the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

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MARY E. LARKIN JOLINE SCHOLARSHIP FUND. \$10,000. Established in 1927 with a bequest from the late Mary E. Larkin Joline. Awarded to a student who is specializing in music.

WERNER JOSTEN SCHOLARSHIP FUND. \$20,322. Established in 1955 with a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field.

JESSIE KAUFMANN SCHOLARSHIP FUND. \$4,000. Established in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

ELEANOR KINNICKUTT SCHOLARSHIP FUND. \$5,000. Established in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded again in 1960.

CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND. \$8,516. Established in 1953 in memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain. If at any time there is no applicant from Spain eligible for the grant, it may at the discretion of the Department of Spanish be awarded to a student who is majoring in Spanish.

EUGENE F. AND MINNIE COUGER MC GOWAN SCHOLARSHIP FUND. \$10,000. Established in 1955 with gifts from an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas.

MRS. DONALD MC LEAN SCHOLARSHIP FUND. \$3,000. Established in 1906 by the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

MARY BARSTOW POPE SCHOLARSHIP FUND. \$4,000. Established in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders.

PUBLIC SERVICE SCHOLARSHIP FUND. \$30,000 from the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, who are interested in following a career of public service in the field of political science, and who show special promise of future usefulness in the public service. Paid at the discretion of the Faculty of Barnard College to either one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one or two or three additional years of graduate study at any approved college or university in order to encourage young women of exceptional ability to complete a long course of study which will fit them for service in public life.

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LUCILLE PULITZER SCHOLARSHIP FUND. \$176,450. Established in 1899 by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. Three are restricted to students from the City of New York; eight are for resident students.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND. \$13,935. Established in 1955 by gifts for this purpose in honor of Amelia de del Rio, the Chairman of the Barnard College Department of Spanish. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department of Spanish, be awarded to a student who is majoring in Spanish.

FELIX ST. GEORGE SCHOLARSHIP FUND. \$7,450. Established in 1955 with a bequest from Miss Ida St. George in memory of her father. Awarded to an incoming freshman whose subject of interest is a science or pre-medical course, more particularly physics, chemistry or biology.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND. \$46,000. Established in 1955 in memory of Fred Curtis Smith, who was at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank.

EMMA A. TILLOTSON SCHOLARSHIP FUND. \$5,000. Established in 1910 by the late Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded again in 1960.

CLARA BUTTENWIESER UNGER MEMORIAL FUND. \$2,500. Established in 1938 by the late Joseph L. Buttenwieser, in memory of his daughter, Clara Buttenwieser Unger, Class of 1913. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND. \$5,000. Established in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh, Class of 1925. Preference is given to a self-supporting student.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND. \$5,000. Established in 1953 by the late Charles Webb. Awarded to a student nominated by the Department of History.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND. \$10,000. Established in 1940 with a bequest from the late Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science.

SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

ASSOCIATE ALUMNAE LOAN FUND SCHOLARSHIP. \$28,000. Established by the Associate Alumnae of Barnard College in 1955 for one or more seniors.

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP. A tuition scholarship, with stipend varying, established in 1944. Awarded annually to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP. A tuition scholarship with stipend varying, established in 1958. Awarded annually, with preference given to a new student from Metropolitan Detroit.

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HOLLAND DAMES SCHOLARSHIP. Established by the Daughters of Holland Dames in honor of Fanny I. Helmuth. Awarded in conference with a representative of the society to a student descended from the early Dutch settlers.

THRIFT SHOP SCHOLARSHIPS. Awarded annually from the proceeds of the Barnard College Alumnae Thrift Shop, 922 Third Avenue, New York 22, New York.

WESTCHESTER SCHOLARSHIP. Established by the Barnard College Club of Westchester in 1937, in memory of Edna Chapin Close, Class of 1902. Awarded to entering freshmen from Westchester County for one year only.

SEVEN COLLEGE SCHOLARSHIPS

The Seven College Conference, made up of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley, annually offers twenty-one Seven College Scholarships for incoming freshmen. Each college offers a scholarship in each of the three following districts: Central: Colorado, Kansas, Missouri, Nebraska; Southwest: Arkansas, Louisiana, New Mexico, Oklahoma, Texas; West: Arizona, California, Idaho, Oregon, Washington.

The amount of the scholarship will be determined by the college making the award from financial information furnished by the applicant. Honorary scholarships carry no stipend; other awards range up to the full amount for tuition, room and board.

Information and application blanks may be obtained from the Director of Admissions of Barnard College.

GRANTS-IN-AID

The income from these funds is available each year.

IDA BLAIR MEMORIAL FUND. \$700. Established in 1937 by the Women's Democratic Union, in memory of Ida Blair, to be used for the purchase of books for a student, preferably one studying political science.

ARTHUR BROOKS FUND. \$5,000. Established in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

THOMAS F. CLARK STUDENTS' LOAN FUND. \$100,000. A bequest of the late Mrs. Fanny Foster Clark.

GALWAY FUND. \$2,400. Established in 1912 by an anonymous donor.

LOAN FUNDS

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which seniors are encouraged to borrow. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. These two funds are now administered by the Faculty-Alumnae Scholarship and Loan Committee. Awards are made on

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the basis of integrity, good standing in the community, academic merit, a sense of responsibility, and financial need.

In making application for financial aid, a student specifies the amount of money needed to supplement family funds. This may be granted by the Committee partially as an award (scholarship, grant-in-aid) with the remainder, up to a maximum of \$500, being made available as a loan from the above mentioned funds. Normally, seniors who qualify for financial assistance are expected to take a part of the amount in the form of a loan. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Loans are scheduled to be repaid in equal quarterly installments over a three year period, beginning six months after graduation. Interest is charged at the rate of 1% per annum, the total amount for the three years being payable with the first quarterly installment.

IX. Honors

The following funds were established to honor those who have shown exceptional promise of distinction in their chosen line of work. Students do not apply for these fellowships and scholarships, which are awarded on an honorary basis. The income from these funds is awarded each year, unless otherwise stated.

GRADUATE FELLOWSHIPS

DOROTHY ALLEN FELLOWSHIP. An award of \$800. Given on the recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration by the committee in making the selection. A needy student shall receive the entire sum toward tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year.

KIMBALL FELLOWSHIP FUND. \$32,800. Established in 1938 with a bequest of the late Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate work at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND. \$20,000. Established by Mr. George Welwood Murray in 1930. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing.

GRACE POTTER RICE FELLOWSHIP FUND. \$24,000. Established in 1935, by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are

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eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing.

THE HERBERT MAULE RICHARDS FUND. \$5,000. Established by the Barnard Botanical Club, former students, and friends, in memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College.

GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND. \$6,800. Established in 1936 by the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in the opinion of the Faculty, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree.

WILLIAM MASON SCHOLARSHIP. The William Mason Scholarship in music is awarded periodically upon the recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND. \$3,000. Established in 1952 with a bequest from the late Annie Nathan Meyer in memory of Margaret Meyer Cohen, Class of 1915. Awarded to a student in the graduating class for instruction in secretarial work.

GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE. Income on \$3,000. Established in 1931 with a bequest from the late Ella Fitzgerald Bryson, Class of 1894, in memory of Frank Gilbert Bryson. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in the opinion of the class has made the greatest contribution to Barnard during her college career.

DEAN PRIZE IN GERMAN. Income on \$1,000. Established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature.

KOHN MATHEMATICAL PRIZE. Income on \$1,000. Established by Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

UNDERGRADUATE AWARDS¹

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND. \$1,000. Established in 1937 with a bequest from the late Estelle M. Allison. Awarded to a student for excellence in literature.

¹ Figures compiled as of January 1, 1958.

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MARY E. ALLISON PRIZE FUND. \$1,000. Established in 1937 with a bequest from the late Estelle M. Allison, in memory of her mother, Mary E. Allison. Awarded to a student for general excellence in scholarship.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND. A fund of \$1,640, established in 1927 by friends of the late Edna Bennett, Class of 1915, Lecturer in Zoology. The income is to be awarded by the Department of Zoology for work at a biological laboratory offering summer courses.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the Sophomore Class who has done the best writing for Barnard Bulletin.

FRESHMAN ENGLISH PRIZE. \$35. Awarded to that freshman who, in the opinion of the Freshman English Committee, does the best piece of writing in connection with the work of the course.

ORAL FRENCH PRIZE. A prize of \$50 awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner will be chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their college career.

THE JENNY A. GERARD MEDAL. The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student writing the best essay on Colonial history.

GERMAN PRIZE FUND. \$8,000. Established in 1950. Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date.

HERRMAN BOTANICAL PRIZE FUND. \$1,000. Established in 1892 by the late Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in botany.

THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. A prize of \$500 open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

AMY LOVEMAN MEMORIAL FUND. \$17,500. Established in 1956 by friends and classmates of the late Amy Loveman. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship.

THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND. \$3,000. Established in 1949 by Dr. William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded biennially, on the recommendation

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of the Department of Philosophy, for the best essay on the nature and grounds of moral obligation, both in its bearing upon our duty to our fellow men and also the neglected ethical issue of our duty to animals.

THE HELEN PRINCE MEMORIAL PRIZE FUND. \$1,200. Established in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, Class of 1922. Awarded to an undergraduate student for excellence in dramatic composition.

KATHARINE E. PROVOST MEMORIAL PRIZE FUND. \$1,000. Established in 1949 in memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Comptroller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics.

CAROLINE GALLUP REED PRIZE FUND. \$1,000. Established in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion.

MARIE REIMER SCHOLARSHIP FUND. \$4,276. Established in 1953 by former students and friends of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry. Awarded at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year.

SPERANZA ITALIAN PRIZE FUND. \$1,000. Established in 1911 by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911. Awarded to a student for excellence in Italian.

JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND. \$1,250. Established in 1917 by her friends in memory of Jean Willard Tatlock, Class of 1895. Awarded to the undergraduate student most proficient in Latin.

VON WAHL PRIZE FUND. \$1,300. Established in 1915 in memory of Constance von Wahl, Class of 1912, President of the Undergraduate Association. Awarded to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

The following prizes of Columbia University are by their terms open to students of Barnard College:

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. The subject for 1958-59 is: "Any topic dealing with the domestic or foreign policy of the United

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States selected in connection with seminar work in one of the social science departments and approved by the Chairman of the Bennett Prize Committee." For additional information consult Professor Truman.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for 1958-59 is: "Sport in the fiction of Ring Lardner and Hemingway." Papers must be submitted by April 22, 1959. For additional information consult Professor Everett.

EARLE PRIZE IN CLASSICS. A prize of about \$75, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, partly on the basis of a special examination in sight translation of passages of Greek and Latin, partly on the basis of consistently good work in the regular Greek and Latin courses. For further information consult Professor Benedict.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of \$40 is awarded at Commencement to that student who, having been regularly enrolled in Columbia College, Barnard College, or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. Topic for 1958-59 is as follows: "The Extent and Limits of Political Obligation." For additional information consult Professor Gelber.

VAN RENSSALAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details, consult Professor Dupee.

WOODBERRY PRIZE. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. Established by the Woodberry Society as a memorial to the late George Edward Woodberry. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1958-59. Value of prize about \$100. For additional details, consult Professor Nicolson.

The following prize is also open to Barnard students:

SUSAN HUNTINGTON VERNON PRIZE. This prize is awarded, on recommendation of the Executive Officer of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar or Wellesley. The value of the prize is about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943.

X. General Information

REGISTRATION

Prior to registration incoming students discuss their programs with their Class Adviser. For freshmen individual appointments are made during September, and for transfer students they are planned for the four days preceding the opening of college. Class advisers are appointed from the teaching staff and are prepared to give information and advice on all matters pertaining to the curriculum. For the year 1958-59 the Class Advisers are:

Mrs. ANNETTE KAR BAXTER	Adviser to the Class of 1962
MISS INEZ G. NELBACH	Adviser to the Class of 1961
MISS MARIANNA BYRAM	Adviser to the Class of 1960
MISS CLARA ELIOT	Adviser to the Class of 1959

On Wednesday and Thursday, September 17 and 18, the freshmen meet together for the first time. The University campus is explored and the varied activities of college life are introduced by upperclassmen and officers of the undergraduate groups.

Registration for all students takes place in the Gymnasium, Barnard Hall, as follows:

Winter Session

Friday, September 19	Old day students (A-L)
Monday, September 22	Old day students (M-Z)
Tuesday, September 23 and Wednesday, September 24	All resident students All freshmen and transfers All former students returning after absence

Spring Session

Monday, February 2	All students (M-Z)
Tuesday, February 3	All students (A-L)

No student will be permitted to register after two weeks from the official opening date of either term.

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register on the dates indicated. (See also Payment of Fees, page 137.)

Students will not be allowed to register for the succeeding term until

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they have had the required medical examination. The final date for the completion of the examination by the College Physician is January 15 for seniors; May 15 for freshmen and sophomores.

CHANGE OF PROGRAM

After a fixed date in each session (winter, October 3, 1958, spring, February 13, 1959) no change of any kind will be allowed except on the written recommendation of an officer of the College and with the approval of the Dean of Studies. Under no circumstances will a student be permitted to enter a course for credit after two weeks from the official opening date of the term.

PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Standing. The minimum number of points that may be elected each semester is 12 and the maximum 16; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or its equivalent in laboratory work, that is, seven hours of class and laboratory work combined. All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements. No credit is allowed for any course elected on an optional or audit basis, even though all work is completed, unless the student changes her registration to a credit basis in the Registrar's office within three weeks of the beginning of the term.

COLUMBIA UNIVERSITY COURSES

Courses in the Faculties of Political Science, Philosophy and Pure Science are open to qualified seniors who obtain the approval of the Major Adviser and the Executive Officer of the Barnard department concerned. Seniors with high academic standing may apply for permission to count two graduate courses in the major field towards the graduate degree. Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the Executive Officer of the Barnard department must be obtained.
2. The student must be in the last term of her senior year.
3. She must be within 12 points of the Bachelor's degree.
4. The points for graduate credit must be in addition to those required for the Bachelor's degree.

Columbia College courses not listed in the current announcement may

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be elected, if the approval of Associate Dean Cole of Columbia College is procured through the office of the Barnard Registrar.

Courses in the School of General Studies may be credited towards the degree, if passed with a grade not lower than C. Fees for General Studies courses (\$37 per point) are paid by the student herself over and above the Barnard tuition, unless she obtains: (1) for a course necessary to her major, (a) a written statement from her Major Adviser that the course is of special importance to her major and that no equivalent course is offered at Barnard, and (b) the approval of the Committee on Programs and Standing; or (2) for a course not directly related to her major, recognition by the Committee on Programs and Standing of the importance of the course to her. (See Fees, page 139.)

Teachers College courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses (\$30 per point) are not included in the regular tuition, but are added to the Barnard bill.

SUMMER STUDY

Credit is given for summer session courses taken at accredited institutions, if they are approved in advance, and if a minimum grade of C is obtained in each course. Courses of less than six weeks' duration are credited only in exceptional cases. Students whose average standing in the preceding year fell below 2.50 are restricted to six points of work in a six-weeks session and a proportionate number for a longer session. No student with an average less than 2.00 will be authorized to attend summer classes.

Additional credit for high standing (see page 160) is not given for summer work.

Students should not expect to fulfill specific requirements for the degree in summer session, but should limit their choice to electives.

Applications for summer study should be filed in the Registrar's office on the specified date. Students are asked to have official transcripts of their summer work sent to the Registrar by November 1.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. The quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are an exception.) Quality of work is gauged numerically by a system of credit ratio, which is the

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ratio of the number of credits received to the number of points elected. A or A— indicates excellent work; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade. Work in the major field of unusual merit is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc) if the instructor has given the student written permission in advance to postpone the submission of required work. The card signifying such permission must be filed with the Registrar by the date indicated on it. The grade for this work automatically becomes F, if not completed within three weeks after the end of the semester. Absent (Abs) means absent from the final examination, and Deferred (Def) means that the grade has been deferred because of illness during the examination. NC indicates that the course was audited only and not taken for credit. WD signifies that the student withdrew from the course without formal notification.

Each point with a mark of A = 4 credits; B = 3; C = 2; D = 1; F = 0; WD = 0. For every plus or minus an adjustment of +0.3 or -0.3 is made. The average mark per point is the student's rating, and is computed at the end of each semester.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Grades of D are not counted in the major field, and no credit for D work is allowed for summer session courses.

Additional credit for high standing is given under the following conditions: one point to the student whose average for the semester is 3.50 to 3.69 inclusive, and two points to the student with an average of 3.70 or over, provided that the program includes not less than 12 points, all work for the session is completed, and no grade of Absent, Incomplete, Withdrawn, or Deferred is received.

At the end of the sophomore year all records are examined. Normally only those students whose cumulative average is 2.00 (C) or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on the Academic Standing of Students.

EXAMINATIONS

Examinations are scheduled at the end of each semester. For the academic year 1958-59 they will be held on January 19-29 inclusive and May 18-28 inclusive.

Deficiency examinations, given in 1958 on September 19, 22, 23, and 24, are open only to those students whose work is satisfactory and who were absent from the regular series because of illness or emer-

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gency. Every absence from a final examination should be reported immediately to the College Physician. Only those students who submit a medical certificate of illness to the College Physician, or evidence of other emergency approved by the Class Adviser, will be permitted to take deficiency examinations. These examinations may be taken in the first or second autumn after the regular period. Otherwise, credit for the course is forfeited. A fee of \$5, payable in advance, is charged for each deficiency examination.

A senior who has missed a final examination of the January series because of illness may apply for a deficiency examination to be given in the week immediately preceding spring vacation.

A senior who has missed an examination at the end of her last semester may apply for a special examination. For each one there is a fee of \$10, payable in advance.

QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen: those who have completed fewer than 24 points of academic work

Sophomores: those who have completed 24 points

Juniors: those who have completed 54 points

Seniors: those who have completed 86 points

Unclassified: those who have not yet been assigned definite credit on transfer

Non-matriculated: those who are not candidates for the degree.

No matriculated student may change her status to that of non-matriculated student.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Announcement of the list is made the following October.

BARNARD COLLEGE

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible.

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February.

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*) and with highest distinction (*summa cum laude*). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the University, the receipt of academic credit, graduation, and the conferring of the degree are subject to the disciplinary powers of the University, which is free to cancel any registration if it seems advisable. The authority of the University is vested in the President of the University. With regard to Barnard students it is exercised by the President of Barnard College in all such cases as the President of the University deems proper.

ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

The attendance of freshmen and students who are on probation is subjected to special review by the Dean of Studies. Excessive absence in their cases may result in loss of credit from the overall total of semester points without regard to grades in course.

All absences due to illness must be reported on forms available in the office of the College Physician. Illness is considered an excuse for excessive absence only if the student's statement is filed immediately upon her return to college.

Students who are prevented by conscientious scruples from complying with academic requirements on days set apart by their church for

GENERAL INFORMATION

religious observance should make application to their religious counselor for an equitable solution, and file a statement from him in the Registrar's office.

WITHDRAWAL

A student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the office of the Registrar. A student under twenty-one years of age must furnish written assent of a parent or guardian. (See Refunds, page 138.)

RESIDENCE

There are two dormitories which provide residence facilities for approximately 360 Barnard undergraduates. They are Brooks and Hewitt Halls on the Barnard campus. When available, Johnson Hall, the women's residence on Columbia campus, offers accommodations for some Barnard upperclassmen. The majority of the rooms in all three dormitories are singles.

The dormitories are under the supervision of the Director of Residence. The Executive Committee of the Residence Halls helps to decide matters relative to student welfare and conduct, and assists in administering the work program.

Further information concerning the residence halls is available in the Residence Halls Handbook sent to all dormitory students on admission to Barnard.

Since Barnard has residence space available for only one-third of the student body, and since the aim of the overall housing policy is to have as many resident students as possible from different parts of the world, it is impossible to assign rooms to those who are able to commute to the college, or who are carrying a program of less than eleven points. Ordinarily any student not residing with her parents or husband is required to live in Brooks, Hewitt or Johnson Halls, unless she receives special permission to live off-campus.

Seniors and juniors will be given permission to live off-campus if they meet one of the following requirements: they must be twenty-one years of age or older at the time the application is made; live with close relatives¹ or with adults residing in an apartment approved by parents; live in a supervised residence or approved women's hotel; or have a living-in job registered with the Placement Office.

Freshmen and sophomores under twenty-one will not be given permission to live off-campus unless with close relatives.¹

¹ Close relatives shall be interpreted to mean parents, husband, grandparents, aunts and uncles, married brother or sister, or brother or sister over twenty-one.

BARNARD COLLEGE

Requests for off-campus housing must be submitted to the Director of College Activities before registration. Any change in residence must be reported to the Director of College Activities immediately.

The penalty for violation of these regulations is suspension from college for a term, or expulsion.

ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1:10 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

THE PLACEMENT OFFICE

The Placement Office, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

The office, which is open twelve months of the year, keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to business, government and other professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office obtains jobs for undergraduates both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, clerical, laboratory, editorial, and sales work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$150.

Summer jobs may be obtained through the Placement Office. Approximately sixty-five per cent of the Barnard students work during the summer and their earnings average about \$350.

XI. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of close to eleven thousand members from all states of the Union and over sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs and the Alumnae Council with its nationwide membership make it possible to find spokesmen for Barnard at distances far from New York. High school students considering Barnard may find it helpful to talk personally with the Barnard representatives living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. HOMER VAN BEUREN JOY (Mary Bowne '30), President

MRS. EDWARD PELZ (Caroline Duncombe '40), 1st Vice-President

MRS. WILLIAM D. GETTEL (Mary Dickinson '34), 2nd Vice-President

MRS. ROBERTSON Y. WARNER (Marion Mettler '25), Treasurer

MRS. DAVID ROMIG (Victoria Thompson '50), Secretary

MISS MARY A. BLISS '25, Executive Secretary

DIRECTORS

MRS. HERBERT W. ANDERSON
(Alice Newman '22)

MRS. JOHN ELLIOTT, JR.
(Eleanor Thomas '48)

MISS ELIZABETH BLAKE '52

MRS. SAMUEL B. HAINES
(Elizabeth Leeds '49)

MRS. TOWNSEND G. P. CANN
(Adelaide Bruns '32)

MRS. WILLIAM D. LIPTON
(Joan Abbrancati '48)

MRS. BASIL T. COLEMAN
(Marguerite McCloskey '28)

MRS. JOHN F. REILLY
(Mary Roohan '37)

MRS. MYRON EISENSTEIN
(Ruth Richards '28)

MRS. SHELDON A. VOGEL
(Alecia Conner '45)

MRS. WALTER M. WEST
(Helen Crosby '13)

BARNARD COLLEGE

ALUMNAE TRUSTEES

MISS DOROTHY R. FUNCK '29

MRS. WALTER M. WEST
(Helen Crosby '13)

MRS. HOMER VAN BEUREN JOY

(Mary Bowne '30)

MRS. FREDERICK J. WOODBRIDGE

(Catherine Baldwin '27)

PRESIDENTS OF ALUMNAE CLUBS

CALIFORNIA

Los Angeles County — MRS. ERNEST E. ERSELIUS (Alice Durant '46), 16156 Flamstead Drive, Puente

Northern California — MRS. J. R. MELBOSTAD (Gloria Wyeth '52), 355 Vista Linda Road, Mill Valley

CONNECTICUT

Fairfield County — MRS. ALDEN SHERMAN (Dorothy Nolan '35), R. D. 4, Weston Road, Weston

Hartford County — MRS. ROGER MILLER (Jean Johnston '39), 47 Pratt Street, Rocky Hill

New Haven — MRS. JOSEPH FRUTON (Sofia Simmonds '38), 2 Livingston Street, New Haven 11

DELAWARE

Wilmington — MRS. CARL LENK (Dorothy Carroll '44), Birmingham Road, West Chester, R.D. 5, Pennsylvania

DISTRICT OF COLUMBIA

Washington — MRS. KARL GOLDBERG (Beatrice Laskowitz '50), 3801 Connecticut Avenue, N.W., Washington 8

FLORIDA

South Florida — MISS GERTRUDE C. PEIRCE '30, 2045 South Bayshore Drive, Miami 45

INDIANA

Indianapolis — MRS. THOM VERHAVE (Helena Baan '51), 3225 Priscilla Avenue, Indianapolis 18

ILLINOIS

Chicago — MRS. F. P. BROTHERTON (Carolyn Ogden '50), 1327½ Maple Avenue, Evanston

ASSOCIATE ALUMNAE

LOUISIANA

New Orleans — MRS. C. HERMAN WEINBERG (Clare Scharff '38),
348 Broadway, New Orleans 18

MARYLAND

Baltimore — MRS. FREDERICK SOBEL (Joan Borowik '47), 1316
Register Avenue, Towson 4

MASSACHUSETTS

Boston — MRS. CHARLES APT (Frances Lattman '49), 99 Hammond
Road, Belmont 78

MICHIGAN

Detroit — MRS. DAVID H. LYNN (Janet Davis '39), 7007 Middlebelt
Road, Birmingham

NEW JERSEY

North Central — MRS. HAROLD S. OSBORNE (Dorothy Brockway
'19), 379 Highland Avenue, Upper Montclair

NEW YORK

Brooklyn — MISS NORA ROBELL '48, 2518 Avenue I, Brooklyn 10
Long Island — MRS. MALCOLM BOLNICK (Arline Newfield '49),
101 Glen Keith Road, Glen Cove

New York — MRS. LEWIS GOLDENHEIM (Ruth Saberski '35), 430
West 24th Street, New York 11

Capital District (Troy, Albany, Schenectady) — MRS. JULIUS SHER-
MAN (Bessie Bergner '29), 17 Marwill Street, Albany 9

Westchester — MRS. MARTIN E. POLINGER (Ruth Tischler '37),
Garth Woods Apartments, Scarsdale

Western New York — MRS. ESTHER A. ROGERS '18, 66 Cadman
Drive, Williamsville 21

OHIO

Cleveland — MRS. CARLTON MATSON (Ruth Jeremiah '21), 2970
Coleridge Road, Cleveland Heights 18

PENNSYLVANIA

Philadelphia — MRS. L. SPRAGUE DE CAMP (Catherine Crook '33),
Single Lane and Providence Road, Wallingford

BARNARD COLLEGE

Pittsburgh — MRS. HAROLD SEDER (Ruth Abelson '31), 6956 Blenheim Court, Pittsburgh 8

TEXAS

Dallas — DR. MARY A. JENNINGS '21, 3224 Caruth, Dallas 25

Houston — MRS. MELVIN FINCKE (Elizabeth Jervis '32), 910 Sul Ross, Houston 6

WASHINGTON

State-of-Washington — MRS. WARREN C. FOOTE (Will Eva Gray '48), 7108 42nd Street, S.W., Seattle 16

REGIONAL COUNCILORS

MRS. JACKSON M. BARTON
(Dorothy Benedict '38)
518 North 74th Street
Omaha, Nebraska

MRS. TALCOTT BATES
(Margaret Pardee '40)
Route 1, Box 969
Carmel, California

MRS. VOLNEY M. BROWN
(Suzanne Swain '31)
3733 Spring Hollow Road
Indianapolis 8, Indiana

MRS. WILLIAM F. CHANDLER
(Priscilla Burge '41)
34 Brandon Road
Louisville 7, Kentucky

MRS. C. LUTHER FRY
(Marion Warren '19)
37 Beckwith Terrace
Rochester 10, New York

MRS. ROBERT N. FULTON
(Dorothy Irvine '48)
720 Troy Street
Denver 8, Colorado

MRS. ISAAC HAMBURGER
(Betty Kalisher '26)
101 Brightside Avenue
Pikesville 8, Maryland

MRS. PAUL A. KELLOGG
(Helen Foote '31)
502 South State Street
Dover, Delaware

MISS GERTRUDE C. PEIRCE '30
2045 South Bayshore Drive
Miami 45, Florida

MRS. W. W. ROSTOW
(Elspeth Davies '38)
56 Fairmont Street
Belmont 78, Massachusetts

MRS. J. SAMUEL RUGG
(Sara S. Lewis '49)
1135 Oriole Road
Santa Barbara, California

MRS. ROFF SIMS
(Catherine Strateman '34)
149 Beverly Road, N.E.
Atlanta, Georgia

XII. Statistics

	1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1950 to 1951	1951 to 1952	1952 to 1953	1953 to 1954	1954 to 1955	1955 to 1956	1956 to 1957
UNDERGRADUATES, REGULAR:																	
Seniors	40	62	*123	87	*126	227	*181	*164	*208	213	232	*255	*238	245	306	302	311
Juniors	40	122	110	190	259	237	220	191	314	320	333	290	323	340	364	362	376
Sophomores	37	109	191	193	234	247	226	210	314	287	223	238	217	317	321	354	334
Freshmen (regular)	4	54	188	240	224	271	311	267	246	324	215	253	294	304	322	303	312
Freshmen (partly regular)	10	.....	.....	.....	.....	57	54	103	143	56	23	14	13	3	24	3	12
Unclassified students .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SPECIAL STUDENTS:																	
Matriculated .....	.....	21	24	32	39	33	28	29	31	21	8	14	14	25	22	20	16
Nonmatriculated .....	.....	22	30	32	22	22	22	22	22	22	22	22	22	22	22	22	22
Departmental (1889-1896) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
Music students (1896-1904, 1914-1915) .....	.....	41	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GRADUATE STUDENTS (1890-1900)	22	62	54	69	61	33	28	29	31	21	8	14	25	22	20	3	16
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD .....	.....	82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
STUDENTS FROM COLUMBIA UNIVERSITY	36	315	535	733	755	980	1104	1026	985	1237	1066	1046	1074	1154	1227	1340	1362
STUDENTS FROM TEACHERS COLLEGE .....	.....	.....	18	59	28	80	153	234	163	92	77	94	62	72	67	104	132
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY .....	.....	.....	18	200	108	38	50	62	21	20	12	2	1	1	3	181	139
TOTAL REGISTRATION	36	333	794	869	873	1183	1400	1210	1097	1326	1162	1109	1146	1221	1334	1472	1523
DEGREES CONFERRED:																	
A.B. (1899-1918) .....	.....	39	88	141	139	198	247	221	206	270	257	267	285	266	258	304	304
B.S. (1909-1918) .....	.....	18	2	8	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
A.M. (1898-1900) .....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1957: A.B., 11,213, B.S., 77.

* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18 in Education	1926-27	2 in Medicine	1934-35	1 in Law	1939-40	1 in Business	1948-49	1 in Medicine
1914-15	3 in Education	1927-28	1 in Medicine	1935-36	1 in Architecture	1942-43	1 in Law	1949-50	1 in Law
1916-17	1 in Journalism	1 in Business	2 in Journalism	1936-37	2 in Journalism	1943-44	1 in Law	1952-53	2 in Law
1921-22	1 in Journalism	1 in Journalism	1 in Architecture	1937-38	2 in Journalism	1944-45	1 in Law	1953-54	2 in Medicine
1922-23	1 in Journalism	1 in Journalism	1 in Journalism	1938-39	3 in Law	1946-47	1 in Law	1954-55	3 in Medicine
1923-24	2 in Journalism	2 in Journalism	2 in Journalism	1939-40	1 in Medicine	1947-48	2 in Medicine	1955-56	1 in Medicine
1924-25	1 in Medicine	1 in Medicine	1 in Medicine	1940-41	1 in Law	1956-57	1 in Law	1956-57	1 in Law

XIII. College Calendar

- Sept. 15 Monday. Final payments due, Winter Session.
- Sept. 19 Friday. Foreign language tests. Hygiene test.
- Sept. 19 Friday, through Sept. 24, Wednesday. Deficiency examinations. Registration in person for Winter Session.
- Sept. 22 Monday. English proficiency test.
- Sept. 25 Thursday. Winter Session, seventieth year begins. Classes begin, 9 a.m. Convocation, 1 p.m.
- Nov. 4 Tuesday. Election Day. Holiday.
- Nov. 25 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- Nov. 27 Thursday, through Nov. 30, Sunday. Thanksgiving holidays.
- Dec. 2 Tuesday. Vocational Conference. Attendance required.
- Dec. 9 Tuesday. Required meetings for planning programs.
- Dec. 20 Saturday, through Jan. 4, 1959, Sunday. Christmas holidays. Residence halls closed.
- Jan. 12 Monday. Foreign language tests.
- Jan. 15 Thursday. Final payments due Spring Session.
- Jan. 18 Sunday. Annual Commemoration Service in St. Paul's Chapel.
- Jan. 19 Monday. Mid-year examinations begin.
- Jan. 29 Thursday. Winter Session ends.
- Feb. 2 Monday and Feb. 3, Tuesday. Registration in person for Spring Session.
- Feb. 4 Wednesday. Spring Session begins. Classes begin, 9 a.m.
- Feb. 20 Friday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.
- Feb. 23 Monday. Washington's Birthday holiday. Not a College holiday.
- March 22 Sunday, through March 29, Sunday. Easter holidays.
- April 14 Tuesday. Required meetings for planning programs.
- May 4 Monday. Foreign language tests.
- May 18 Monday. Final examinations begin.
- May 28 Thursday. Spring Session ends.
- May 30 Saturday. Memorial Day. Holiday.
- May 31 Sunday. Baccalaureate Service.
- June 2 Tuesday. Conferring of degrees.
- July 6 Monday. Sixtieth Summer Session of Columbia University begins.
- Aug. 14 Friday. Sixtieth Summer Session ends.
- Sept. 14 Monday. Final payments due, Winter Session.
- Sept. 18 Friday through Sept. 23, Wednesday. Registration in person for Winter Session, 1959-60.
- Sept. 24 Thursday. Winter Session, seventy-first year begins. Classes begin 9 a.m. Convocation, 1 p.m.

SEPTEMBER, 1958

S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

CALENDAR FOR 1958-1959

OCTOBER, 1958

S	M	T	W	T	F	S
	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY, 1959

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE, 1959

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

NOVEMBER, 1958

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

MARCH, 1959

S	M	T	W	T	F	S
	1	2	3	4	5	6
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JULY, 1959

S	M	T	W	T	F	S
	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

DECEMBER, 1958

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

APRIL, 1959

S	M	T	W	T	F	S
	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

AUGUST, 1959

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

JANUARY, 1959

S	M	T	W	T	F	S
	1	2	3			
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

MAY, 1959

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SEPTEMBER, 1959

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

XIV. Examination Groups

Courses are arranged in examination groups to avoid conflicts on the examination schedule. Groups are indicated by Arabic boldface numerals in brackets following the course title. Group **0** includes courses which ordinarily do not have final examinations. No student may elect two courses in the same examination group (except Group **0**) *without making special arrangements through the Registrar's Office.*

Group [1] M W F 9

Anthropology 1, 2
Chemistry 41, 42 (M W F 9, W 12)
Economics 17, 18
English 53
French 17-18
Government 11; 12
Mathematics 1
Religion 25, 26
Zoology 1-2; 1a-2a; 129

Geography 3, 4
Government 31, 32
Greek 21; 22
History 35, 36
Italian 3-4; 13-14
Music 1-2; 3
Philosophy 1 or R1 (II)
Philosophy 43
Physics 3-4; 3a-4a
Psychology 10; 15; 26
Spanish 17-18
Zoology 152a

Group [2] M W F 10

Economics 27; 28
English 43, 44; 69; 70
Fine Arts 61; 70
French R4; R5x; R5
French 25, 26
Geology 1, 2; 1a, 2a
German 5, 6
Government 1, 2 (I)
Greek 11; 12
History 9-10; 25, 26
Mathematics R1; 33
Music R31-R32
Philosophy 1 or R1 (I); 61-62
Psychology 27; 28; 57
Sociology R41
Zoology R15

Group [4] M W F 1

Chemistry 145
Economics 7-8
Fine Arts 77; 78
French 21, 22
Geology 26
Government 15, 16
Latin 1-2; 11; 12
Mathematics R33
Music R16 (M 1, W 1-3)
Music 31-32
Philosophy 5; 22
Psychology 15
Sociology 33; 34
Spanish 13, 14

Group [3] M W F 11

Chemistry 105, 106
Classical Civilization R58
Economics R24; 30
English 61; 63; 66; 78
Fine Arts 91, 92
French 23, 24

Group [5] M W F 2

Anthropology 3; 12
Botany 7; 8; 9
English 72; 75
Fine Arts 51, 52
Geography 12; 15E
Government 9, 10
Greek 1-2
History 43; 45-46; 58

EXAMINATION GROUPS

Latin 3; 4
Mathematics 7–8; R32; 34
Oriental Civilization 35–36
Philosophy 1 or R1 (III); 6
Philosophy 41; 84
Physics R5
Religion 17; 18; 58
Sociology 35; 38

Group [6] T Th 9

Anthropology 9; R107
Botany 1–2; 1a–2a
English 79, 80 (9:10–10:25)
French 11–12
French 27, 28 (9:10–10:25)
German R35
History 11, 12 (9:10–10:25)
Italian 17–18 (9:10–10:25)
Latin 25 (9:10–10:25)
Latin 26 (9:10–10:25)
Mathematics R6 (9:10–10:25)
Philosophy 1 or R1 (IV) (9:10–10:25)
Psychology 24
Psychology 37 (9:10–10:25)
Religion 1 (9:10–10:25)
Religion 30
Sociology 87 (9:10–10:25)
Zoology 3

Group [7] T Th 10

Economics R9 (10:35–11:50)
Economics R32 (10:35–11:50)
Fine Arts 75, 76 (10:35–11:50)
French 29 (10:35–11:50)
Geography 1, 2 (10:35–11:50)
Government 1, 2 (III) (10:35–11:50)
History 37, 38 (10:35–11:50)
History 53, 54 (10:35–11:50)
Italian 11, 12 (10:35–11:50)
Mathematics 32 (10:35–11:50)
Music R32a; R33a
Philosophy 4 (10:35–11:50)
Philosophy 9 (10:35–11:50)
Psychology 108 (10:35–11:50)
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BEQUEST FORM

General

I, give and bequeath to Barnard College in the City of New York the sum of for the uses and purposes of the said Corporation.

Endowment

I, give and bequeath to Barnard College in the City of New York the sum of to be added to the General Endowment of the said Corporation.

For a Specific Purpose

I, give and bequeath to Barnard College in the City of New York the sum of to be used for the purposes of

.....
to be known as the Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.

N O T E S

NOTES

COLUMBIA UNIVERSITY

Plan of Buildings and Grounds

